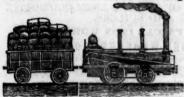
# AMERICAN RAILROAD JOURNAL,

# AND GENERAL ADVERTISER

FOR RAILROADS, CANALS, STEAMBOATS, MACHINERY,

AND MINES.



#### ESTABLISHED 1831.



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THURSDAY, MAY 8, 1845.

[WHOLE No. 462, Vol. XVIII.

### THE AMERICAN RAILROAD JOURNAL

s the only periodical having a general circulation throughout the Union, in which all matters connected Railroads, Railroad Directors throughout the Union, in which all matters connected with public works can be brought to the notice of all managers are respectfully invited to examine an improved SPARK persons in any way interested in these undertakings. persons in any way interested in these undertakings. ARRESTER, recently patented by Hence it offers peculiar advantages for advertising the undersigned. times of departure, rates of fare and freight, improvements in machinery, materials, as iron, timber, stone, cement, etc. It is also the best medium for advertising contracts, and placing the merits of new undertakings fairly before the public.

#### RATES OF ADVERTISING.

One page per	annun	n													\$125	00
One column	46														50	00
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One square	**	33													1	00
Professional r	notices	per	a	n	nı	u	m	١.							5	00

These chimneys and arresters are simple, durable and neat in appearance. They are now in use on the following roads, to the managers and other officers of which we are at liberty to refer those who may desire to purchase or obtain further information in regard to their merits:

E. A. Stevens, President Camden and Amboy Railroad Company; Richard Peters, Superintendant Georgia Railroad, Augusta, Ga.; G. A. Nicolls, Superintendant Philadelphia, Reading and Pottsville Railroad, Reading, Pa.; W. E. Morris, President Philadelphia, Germantown and Norris, Troy, N. Y. (See Adv.)

TROY IRON AND NAIL FACTORY, H. Burden Agent. (See Adv.)

ROGERS, KETCHUM & GROSVENOR, Paterson, N. J. (See Adv.)

RVIL, Speedwell Iron Works, near Morristown, N. J. (See Adv.)

RVILS, Speedwell Iron Works, near Morristown, N. J. (See Adv.)

RALDWIN & WHITNEY, Philadelphia, Pa. (See Adv.)

ROSEWINANS, Balimore, Md.

CYRUS A LGER & CO., South Boston Iron Company, Newcastle, Del. (See Adv.)

ROSEWINANS, Balimore, Md.

CYRUS A LGER & CO., South Boston Iron Company, See TH. ADAMS, Engineer, South Boston. Mass. ENGINEERS and MACHINISTS. SETH ADAMS, Engineer, South Boston, Mass. HINCKLEY & DRURY, Boston. C. C. ALGER, [Stockbridge Iron Works,] Stock-

### IRON MERCHANTS and IMPORTERS.

DAVIS, BROOKS, & Co. N. Y. [See Adv.] A. & G. RALSTON & Co. Philad Pa. [See Adv.] THOMAS & EDMUND GEORGE, Philadelphia.

### FRENCH AND BAIRD'S PATENT SPARK ARRESTER

Our improved Spark Arresters have been extensively used during the last year on both passenger and freight engines, and have been brought to such a state of perfection that no annoyance from sparks or dust from the chimney of engines on which they are used is experienced.



These Arresters are constructed on an entirely different principle from any heretolore onered to the public The form is such that a rotary motion is imparted to the heated air, The form is such that a rotary motion is imparted to the heated air, smoke and sparks passing through the chimney, and by the centrifugal force thus acquired by the sparks and dust they are separated from the smoke and steam, and thrown into an outer chamber of the chimney through openings near its top, from whence they fall by their own gravity to the bottom of this chamber; the smoke and steam passing

off at the top of the chimney, through a capacious and unobstructed passage, thus arresting the sparks without impairing the power of the engine by diminishing the draught or activity of the fire in the furnace.

These chimneys and arresters are simple, durable and neat in appearance. They are now in use on the following roads, to the managers and other officers of which we are at liberty to refer those who

A GOOD SECOND HAND LOCOMOTIVE TO RAILROAD COMPANIES AND MANEngine, 6 wheels, weighing with wood and water about 10 tons, with Tender complete, made by bers have for sale Am. and English bar iron, of all
Baldwin, for sale by A. & G. RALSTON & CO.
Mar. 20, 1m. 4 South Front St., Philadelphia.

S PRING STEEL FOR LOCOMOTIVES,
In manufacturing Spring Steel from 14 to 6 inches tin width, and of any thickness required: large quantities are yearly furnished for railroad purposes, and engine manufacturers of this city.

The subscriber is engaged in width, and of any thickness required: large quantities are yearly furnished for railroad purposes, and engine manufacturers of this city.

The subscriber is engaged in width, and of any thickness required: large quantities are yearly furnished for railroad purposes, and engine manufacturers of this city.

The subscriber is engaged in manufacturers of the wheel is stated in the order, a fit to those wheels is guaranteed, saving to the purchaser the expense of turning them out inside.

THOMAS & EDMUND GEORGE,

ja45

N. E. cor. 12th and Market sts., Philad., Pa.

The works being on an extensive scale, all orders will be executed with promptness and despatch. Communications addressed to Mr. William H. Dobbs, Superintendent, will meet with immediate attention.

ANDREW C. GRAY, ja45

President of the Newcastle Manuf. Co.

THE NEWCASTLE MANUFACTURING Company continue to furnish at the Works, situated in the town of Newcastle, Del., Locomotive and other steam engines, Jack screws, Wrought iron work and Brass and Iron castings, of all kinds connected with Steamboats, Railroads, etc.; Mill Gearing of every description; Cast wheels (chilled) of any pattern and size, with Axles fitted, also with wrought tires, Springs, Boxes and bolts for Cars; Driving and other wheels for Locomotives.

The works being on an extensive scale, all orders

The works being on an extensive scale, all orders

Albany, N. Y.

Mr. C. also announces that Railroads, and other works pertaining to the profession, may be constructed under his advice or personal supervision. Applications must be post paid.

RAILROAD IRON AND LOCOMOTIVE
Tyres imported to order and constantly on hand
Mar. 20tf
A. & G. RALSTON
Mar. 20tf
ASouth Front St., Philadelphia.
Company continue to furnish at the Works, situated in the town of Newcastle, Del., Locomotive and other steam engines, Jack screws, Wrought iron and other steam engines, Jack screws, Wrought iron work and Brass and Iron castings, of all kinds con-

No. 4 Sout Fronth st., Philadelphia, Pa.

TO RAILROAD COMPANIES AND BUILD ERS OF MARINE AND LOCOMOTIVE ENGINES AND BOILERS.

#### PASCAL IRON WORKS.

#### WELDED WROUGHT IRON TUBES

From 4 inches to 1 in calibre and 2 to 12 feet long, capable of sustaining pressure from 400 to 2500 lbs. per square inch, with Stop Cocks, T. L. and other fixtures to suit, fitting together, with screw joints, suitable for STEAM, WATER, GAS, and for LOCOMOTIVE and other STEAM BOILER Fores.



Manufactured and for sale by MORRIS, TASKER & MORRIS.
archouse S. E. Corner of Third & Walnut Streets, PHILADELPHIA.

NO IRON MASTERS.—FOR SALE.—MILL TO IRON MASTERS.—FOR SALE.—MILL SITES in the immediate neighborhood of Bi-luminous Coal and Iron Ore, of the first quality, at Ralston, Lyoming Co., Pa. This is the nearest point to tide water where such coal and ore are found together, and the communication is complete with Philadelphia and Baltimore by canals and railways. The interest on the cost of water power and lot is all that will be required for many years; the coal will not cost more than \$1 to \$125 at the mill site without any trouble on the part of the the coal will not cost more than \$1 to \$1 25 at the mill sites, without any trouble on the part of the manufacturer; rich iron ore may be laid down still more cheaply at the works; and, taken together, these sites offer remarkable advantages to practical manufacturers with small capital. For pamphlets, descriptive of the property, and further information, apply to Archibald McIntyre, Albany, to Archibald Robertson, Philadelphia, or to the undersigned, at No. 23 Chambers street, New York, where may be seen specimens of the coal and ore.

W. R. CASEY, Civil Engineer,

VALUABLE PROPERTY ON THE MILL Dam For Sale. A lot of land on Gravelly Point, so called, on the Mill Dam, in Roxbury, fronting on and east of Parker street, containing 68,497 square feet, with the following buildings

thereon standing.

Main brick building, 120 feet long, by 46 ft wide, two stories high. A machine shop, 47x43 feet, with large engine, face, screw, and other lathes, suitable to do any kind of work.

Pattern shop, 35x32 feet, with lathes, work bench-

es, &c. Work shop, 86x35 feet, on the same floor with the pattern shop.

pattern shop.

Forge shop, 118 feet long by 44 feet wide on the ground floor, with two large water wheels, each 16 feet long, 9 ft diameter, with all the gearing, shafts, drums, pulleys, &c., large and small trip hammers, turnaces, forges, rolling mill, with large balance wheel and a large blowing apparatus for the foundry.

Foundry, at end of main brick building, 60x454 feet two stories high, with a shed part 454x20 feet, containing a large air furnace, cupola, crane and corn oven.

corn oven.

Store house -a range of buildings for storage, etc.,

200 feet long by 20 wide.

Locomotive shop, adjoining main building, fronting on Parker street, 54x25 feet.

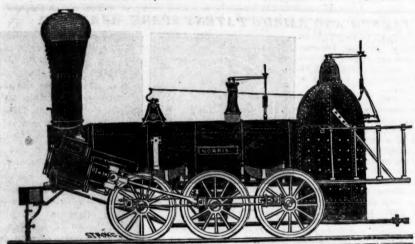
Also—A lot of land on the canal, west side of Parker st., containing 6000 feet, with the following buildings thereon standing:

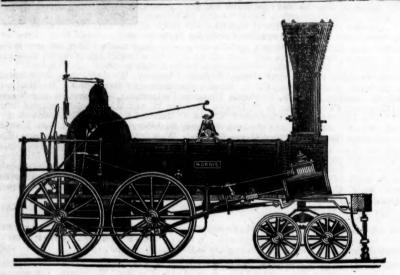
Boiler house 50 feet long by 30 feet wide, two sto-

Blacksmith shop, 49 feet long by 20 feet wide.
For terms, apply to HENRY ANDREWS, 48
State st., or to CURTIS, LEAVENS & CO., 106
State st., Boston, or to A. & G. RALSTON & Co.,
Fauadelphys.

#### LOCOMOTIVE $\mathbf{WORKS}$ NORRIS'

BUSH HILL, PHILADELPHIA, Pennsylvania.





MANUFACTURE their Patent 6 Wheel Combined and 8 Wheel Locomotives of the following descriptions, viz: tions, viz: Class

15 inches Diameter of Cylinder, × 20 inches Stroke.  $\times$  24 66 44 3,  $\times$  20 141 66 124 22 22 X 20 46 22 22 EE 44 45 × 20 66 111 66. 66 24 104  $\times$  18

With Wheels of any dimensions, with their Patent Arrangement for Variable Expansion.

Castings of all kinds made to order: and they call attention to their Chilled Wheels, for the Trucks of Locomotives, Tenders and Cars.

NORRIS, BROTHERS.

CHESAPEAKE AND OHIO CANAL.

There has recently been a general meet. There has recently been a general meeting of the stockholders of this company, for the purpose of accepting or rejecting the amendment to its charter, and the law recently passed by the Legislature of Maryland, "to provide for the completion of the law respectively. The depth of the Chesapeake and Ohio canal with single locks, can be and Ohio canal, with single locks, can be at the bottom. From Harper's Ferry to land, "to provide for the completion of the law respectively. The canal parallel with some constant of the law respectively. The canal parallel with law respectively. canal to Cumberland, and for other purposes." Both were unanimously accepted—
therefore we now hope to see the canal
speedily completed to the coal regions, that
it may be used to some purpose, and thus aid in removing the load which it has been largely, if not mainly, instrumental in fastening upon the shoulders of the people of Maryland. Open wide the avenues between the treasures of the mountains and tide-watime the treasures of th own materials.

communication of the President, James M. Coale, Esq., to the stockholders, by way of refreshing the memory of those of our readers who may have forgotten its dimensions and estimated capacity :-

" It may be proper, in this connection, to give a brief description of the Chesapeake and Ohio canal, its dimensions, present cost, capacity, and the sources of its expected trade, in order that the strength of the security upon which the bonds are to be based, may be justly appreciated.

#### THE CANAL.

line is within the State of Maryland. Of calculation is before us, we will here tran-the entire line 134½ miles, extending from scribe its results. and labor is abundant, and these advantages was, with single locks, 6,000,000 of tons, be seen by reference to the voluminous and must necessarily enure to the benefit of the and with double locks, 10,000,000 of tons, very learned report of Professor Johnson, company.

With a large allowance, there"on American coals applicable to steam na-

DIMENSIONS AND COST.

canal to Cumberland, and for other pur. ft. and bottom width 32 ft. From Dam No. 5 the river through its entire length, necester, and we shall soon see vast amounts of view to a double lockage, whenever the ex- mumication with the trade of the west, and capital invested, and ample supplies of bituminous coal, and iron of the best quality, as we shall presently show, the capacity of route to the seaboard, from the vast and poproduced by our own labor, and from our is fully equal to the accommodation of a tains. With a portage, by wagons, of only we make the following extracts in relagant desires of its supporters. The sheer road, between Cumberland and Brownsville, tion to the character of the work from the cost of the canal up to this time is as fol- on the Monongahela, to which steamboats of

For the acquisition of lands,

Total,

CAPACITY.

fore, for the usual discrepancy between theo-The depth of the Chesapeake and Ohio retical calculations and practical results, it is

the largest class now come, the facilities of \$402,913 94 water communication for freight of every de-For the acquisition of lands,
For the engineer department,
9,013,837 56 dering on the Ohio river, and those of the \$9,775,702 54 conveying their productions to the cities of the Atlantic, or receiving from thence their When the canal shall be finished and filled supplies. From the county of Alleghany to its capacity, boats carrying 100 tons also a considerable amount of tonnage will of tonage may navigate its entire length with be supplied in iron, fire-bricks, cement, lumease. In consequence of the mildness of ber, etc.; but by far the most important the latitude in which it is located, it has here. source of trade relied on, and to grasp which tofore seldom been closed by ice for more has been the primary and controlling motive than six weeks in the year, which generally in prosecuting the work to its present desti-happens in January and February; and, in nation, is the boundless and inappreciable The Chesapeake and Ohio Canal, with this respect, it consequently possesses great coal fields of that country. Within a range the terminus at present contemplated, exadvantages over the northern canals, whose of from six to twelve miles from the basin tends from Georgetown, in the District of navigation is usually suspended for four or of the canal at Cumberland the deposites of Columbia, to the town of Cumberland, in Al. five months annually. It is scarcely neces. bituminous coal of a superior quality are nuleghany county, Maryland, a distance of sary to go into an estimate of the annual merous, and, morally speaking, inexhausti184½ miles. About 5 miles of the canal is amount of tonnage that might be transported ble. Those that have been already opened within the District; the entire residue of the on a work of this description; but, as the consist of horizontal strata, slightly elevated, Georgetown to Dam No. 6, are finished and Several years ago the chief engineer of self-drainage. According to Professor Sillinavigable, and the trade thereon is steadily this company made two estimates, founded man, the quantity of coal in that region that increasing. Thirty-one and seven-tenths of upon data furnished by the experience of 14 is thus situated " is so abundant that it will the work of the remaining fifty miles have years on the Erie canal, in New York. not be exhausted for centuries. It will be already been executed, at a cost of \$2,892,. The one was based on the greatest month's the province of a distant posterity to drain 000, and there only remains eighteen and work, and the other on the number of boats the lower beds by tunnelling, or by the unthree-tenths miles of the work to be done to complete the canal and open a thorough na. of that canal, could conveniently be passed engine." But the boundless extent of the vigation from the tide-water of the Potomac each day. Assuming the capacity of boats Alleghany coal fields, as well as the superior to Cumberland. The amount required to on the Chesapeake and Ohio canal at only quality of the Cumberland coal, are matters finish these eighteen and three-tenth miles, according to the first calculation, so well established now as to render a parade according to a detailed estimate made by the the amount of tonnage capable of being of authorities on the subject in this place chief engineer, in 1842, was \$1,545,000. That estimate was made in reference to the was shown to be, in both directions, with the inquiry will find a mass of testimony cost of the work which had been done, at a single locks, as at present, 3,264,000 tons, collected together in the appendix to our time when provisions were high and labor and with double locks, 5,440,000 tons; and, special report of the 16th of November, scarce. Now, however, provisions are low on the second basis, the amount presented 1843, and new illustrations of its value will coals.

the blast furnace.

one and fifteen-sixteenth inches in diame- interior. ter, by the use, in each case, of sixty lbs. of coal. Midlothian (new shaft) coal of the canal, and indicated some of the most equal quantity was found adequate to the prominent sources of its expected trade. making of fourteen links of one and threeeighth inch chain; and three Virginia coals good reasons for the assertion made in an (viz. Crouch & Snead's, Creek Company's, early part of this communication, that the ing a mean evaporating power almost iden- law, being preferred and absolute liens upon nine links of one and three-eighth inch chain.' one of the best and safest investments of the

The following table will exhibit "the re- day. lative heating powers of the Cumberland and foreign coals, as tested in making chaincable, compared with their evaporative

Designation of Coals.	Pounds of steam, at 212°, produced by 1 lb. of coal.	Size of links, diameter in inches.	No. of links made by 60 lbs. of coal.	Deduced No. of links of 13 inches in di- ameter by 60 lbs.
Cumberland, Atkinson & Templeman, Do. Maryland & New York Min-	10.699	13	18	18
ing Company,	10.259	13	20	20
Foreign, Scotch,	6.946	13	10	10
Do. Pictou,	8.412	13	11	11
Do. Liverpool,	7.842	13	13	13
Do. Newcastle,	8.656	11	15	15

vigation and other purposes," made to the Navy Department, in June, 1844, and rethat might be enumerated, it is scarcely pos- unable to pay for it, we will publish their arcently published under an order of the U.S. sible, without incurring a charge of extra-rangements, terms, etc., gratis, for the infor-Senate. In this last mentioned document, vagance, to estimate the amount of Cumber- mation of our readers, who every day make which contains the results of a long series of land coal that would be annually consumed, inquiries of us in relation to their lines. scientific experiments, it will be found that if a full and regular supply were furnished "in the order of evaporative power under equal weights," "of evaporative power unkets of the country. We have before us, der equal bulks," which is deemed of the however, abundant evidence to show that highest importance for the purposes of steam the most energetic efforts will be made to of advertising. We admire the liberality of navigation, and of the "evoporative power keep pace with the demand, to whatever the editor, who offers to advertise "gratis," of combustible matter," the Cumberland magnitude it may increase, as soon as the but are inclined to believe that he is driven coal takes rank as number one in a list of proper facilities of conveyance are afforded. thirty-seven different varieties of coal, obtained from various regions in the United prize appear to have manifested themselves States and Great Britain, including the New- in the Cumberland region. Within the castle, Sidney, Pictou, Liverpool, and Scotch range of which we have before spoken, numerous mines have already been opened by "As a fuel for domestic purposes (accor- incorporated companies of large capital, priding to the report alluded to) it possesses vate partnership, and individuals, all of on the one hand, a flame abundantly suffi- whom are now preparing for vigorous operacient to give cheerfulness to the aspect of a tions. The railroad which is to connect the parlor fire, and on the other, a durability mines with the basin of the canal at Cumapproximating that of some of the lighter berland has already been completed; ananthracites; and, as a furnace coal for the other is under contract, and two more in manufacture of iron, it will be found among contemplation, which will be finished next the best of the bituminous class, since, year. These roads, the longest of which either with or without previous coking, it will not exceed ten miles, will bring the may be very advantageously employed in products of the various mines to the basin of the canal at Cumberland, and from thence "Three different sizes of chain were in they will be transported on its smooth sur-rather than not oblige them! progress of manufacture at the different pe- face to market. According to the present riods at which these experiments were made. tariff, the toll on the transportation of coal They can, however, be all reduced to the from Cumberland to Georgetown is one dolsame size, by a comparison with a common lar per ton. It will be perceived that in the standard sample of coal, which was used on foregoing enumeration we have mainly contwo sizes of chain. Thus Atkinson and fined ourselves to a consideration of the de-Templeman's (Cumberland coal) made 18 scending trade of the canal. The ascending Messrs. Davenport & Bridges. It reads links of a chain one and three-eighth inches will of course consist of those ordinary supin diameter, and eight links of another chain plies which pass from the seaboard to the

We have thus presented a brief outline of Having done this, we think we have given and Chesterfield Mining Company's,) hav- bonds that are to be issued under the recent tical with the Midlothian 'new shaft,' put in the entire revenues of the Company, will be

> LEHIGH CANAL AND LEHIGH AND SUSQUE. HANNA RAILROAD TRANSPORTATION.

We have been informed that much difficulty has arisen for want of a connection our informant is mistaken we hope those in-terested will correct us. If the transporta-tion companies think an advertisement in the trusses."

We find the above in the Carbon County to this course, in self-defence, to avoid being himself made what is sometimes called a "standing advertisement." It reminds us of the modest and reasonable requests, not unfrequently made of us, to furnish a written description, giving the length, grades, curves, cost, etc., etc., of all the railroads in the United States-or that we will furnish the inquirer with a single number of the Journal containing all this information for six cents! and it has occurred that we have received such a request from an entire stranger, by mail, when the letter was charged with postage!! Perhaps the editor of the Gazette will also pay postage on the advertisements

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IMPROVED TRUCK FRAME FOR RAILROAD CARS.

We find in the Journal of the Franklin Institute, for April, the following specification in relation to the Iron Truck Frame of thus, viz :-

The connections between the pedestals of this truck frame, instead of being made by means of solid pieces of timber extending from one pedestal to another on each side, are, by means of two tie plates of iron bolted together through the pedestals, one being above and the other below; above the upper tie plate, and extending from one pedestal to the other, there is an arch plate connected with the pedestals by the same bolts that secure the tie plates. The two truss frames are connected together by means of diagonal iron plates bolted to the pedestals, and so twisted and connected in the middle as to form the opening for the king-bolt that secures the truck and car together.

Claim-" I do not claim making the truck between the transportation lines upon the frame of a railroad carriage with side truss Lehigh canal and those upon the Lehigh and frames united with diagonal braces, as this Susquehanna railroad. And that goods des- has been known before, nor do I claim matined for Mauch Chunk from Wilkesbarre king these frames of iron, or other metal; must be accompanied by an agent to insure but what I do claim as my invention, is matheir delivery at this place, otherwise they king the trusses of the truck frame that are are left at White Haven without being for united and braced together by means of warded. This line is becoming of much twisted diagonal plates, of arch plates, and importance, much of the produce used here tie bars, so arranged and bolted together as and in the vicinity, being brought from the to embrace and secure the pedestals as devalley of the Susquehanna. If we have scribed, by which arrangement I obtain the been correctly informed the present arrange- necessary strength with greatly reduced ment cannot be too severely condemned; if weight, and employ the pedestals for the

MAGNETIC TELEGRAPH ACROSS THE ATLANTIC.

we cannot speak from actual knowledge, needful to be known in these parts." and should be glad of information on the Afterwards the publisher gave notice that subject. The plan suggested for establish. if he did not print a sheet every other week ed, and as large as a pipe stem, from Nova Great Britain."
Scotia to the coast of Ireland. This, as is "Thirteen mo the wire upon reels, and arranging it on 1845 say to such a catastrophe? board a steamer so as to be reeled off as fast as the boat goes, and dropped the whole width of the Atlantic. The writer says:

where water was so dense as to be of equal telegraphic communication with Europegravity, and of course beyond the reach of a difficult question, truly, to answer-not any kind of collision. Beginning and end- more difficult enterprize, however, than ing upon a bold shore, beyond the reach of many which have been accomplished within anchors, it would be out of harm's way, and exposed to but two kinds of accidents, viz: the past half century. from separation by its own weight, and the loss of the coating with which the metal must be protected. The steamer Gt. Britain would carry more wire of this size than would extend to Europe, and its cost I think would be less than a million of dollars."

f

Surprising as it may seem, when its reidea. It may be realized at no distant day. And then we shall receive news from Europe in a breath of time, and as fresh as the vellous than the changes which have been the facilities for spreading it through the we are impatient if the steamer is delayed beyond twelve or thirteen days on the voyage from Liverpool; and in four and twenty lie forms, and of polishing. hours after her arrival the intelligence she within a hundred miles of Boston.

A little more than a hundred years ago, the Boston News Letter, the first newspaper

A writer in the New York Tribune suggests a plan for bringing Old England within speaking distance of us, by means of Morse's telegraph. By the way, as often as we see those words, Morse's telegraph, we who will be at the pains to trace back forgether and more acceptable, he has since unattainable by hand. The speculum of six feet diameter, just completed, was "polished in six hours," and with "the same facility as a smaller speculum;" and, what is altogether new, the polishing was effected by ask ourselves, whether the magnetic tele- mer years, and even this time twelve months "placing the speculum in a cistern of water. graph, which is justly exciting so much admiration, really is Morse's telegraph, or whether it is the invention of some other individual; our impression is, that a scientific we months; so that by the sheet we have retrieved about eight months since January fic gentleman of this city, not Prof. Morse, last, and any one that has the News Letter

thought, may be accomplished by winding news!" What would the news mongers of

We copy the above article from the Traveller. We have more than once been ask-"Its gravity would sink it to the depth ed how long it will be before there will be a

> For the Railroad Journal. TELEGRAPHS.

sults are considered, this is not a chimerical the magnetic telegraph. The improvements the achromatic, or refracting telescope—havmade by the Earl of Rosse, as described in dimensions than any heretofore constructed. lightning's flash. We may stop our press the North British Review, and other scien- From the preceding, it will be perceived

His improvements consist principally in the two systems. cities and villages of our own country. Now the composition of the speculum metal, the In concluding our remarks upon this submode of casting, of giving the exact parabo- ject, we will state, that a method for the

brings has become old news in every village to possess a greater magnifying power than modes above referred to. This latter mode of six feet diameter has just been completed, to be conveyed in a hollow cylinder, which published in Boston, was printed on a half and others are in progress, of 8 and 10 feet is impelled with great velocity through a sheet of pot paper, once a week. In August, diameter! To show to what degree the tube of a suitable size, by atmospheric pres-1719, the publisher of the News Letter gave process of constructing has been simplified sure, upon the same principle that motion is the following notice:

"The undertaker of this News Letter in January last gave information that after fourteen years' experience, it was impossible with half a sheet a week to converge and nolishing is all done by with half a sheet a week to carry on all the grinding and polishing is all done by ma- tablish a general system of telegraphic compublic occurrences of Europe, to made up chinery moved by steam power, (a small en-munication.

which deficiency, and to render the news gine of two horse power,) with a precision newer and more acceptable, he has since unattainable by hand. The speculum of six

The great cost of reflecting telescopes of is entitled to the credit of first developing to January next (life permitted) will be ac- a high magnifying form has heretofore conthat wonderful power of magnetism; but commodated with all the news from Europe sisted in the great expense and difficulty of forming the speculum, and as this appears now to be overcome, it is reasonable to infer ing telegraphic communication across the during the winter, he would make it up in that a very great improvement may result Atlantic is, to run a copper wire, well cover- the spring, "when ships do arrive from in the system of visual telescopes. The magnifying power of Herschel's great tele-"Thirteen months behind with the foreign scope has been estimated at 6,000. The three feet speculums of Rosse have an equal or greater power. With telescopes like these, the telegraphic stations may be so far removed from each other as to lessen very materially the expense of conveying intelligence; and if combined with the Drummond light, which is not costly to produce, the telegraphic signs may be read distinctly by night as well as by day, and at all times when the atmosphere is not obscured by fogs, rain or snow.

While the Earl of Rosse has been thus The recent improvements in the construc- successful in improving the reflecting teletion of Telescopes will render more perfect scope, it appears by recent accounts that anthe system of visual telegraphs, and may other gentleman, M. Jaunitz, in France, has lessen perhaps materially the superiority of been nearly equally successful in improving to which we particularly allude are those ing been able to form lenses of much larger

to announce an event which occurred but a tific journals. The article in the Review that the system of visual telegraphs will, in few seconds before on the other side of the contains a very full account of the labors of all probability, be very greatly improved, water. Nor will this be much more mar-the Earl, in his efforts to improve the re- and that shortty, and that any comparison wrought by the aid of science, within the flecting telescope, and by which it appears instituted between it and the magnetic telepast century, as well in the transmission of that an immense magnifying power may be graph, in the present state of the former, intelligence from the other continent, as in obtained at a comparatively small expense. would not show the actual relative merits of

> quick transmission of intelligence has been A speculum of three feet diameter is found proposed, differing entirely from the two the four feet speculum of Herschel. One consists in placing the intelligence or article

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Newcastle and Darlington. Newcastle and North Shiele North Union Paris and Orleans. Paris and Rouen. Preston and Wyre. Sheffield and Manchester South Eastern.	ds	23 7 39 82 84 19 19	500,00 150,00 739,20 1,600,00 1,440,00 830,00 1,150,00 2,996,00	00 00 153,8 01 308,3 00 400,0 00 00 179,8 00 311,5 00 1,530,8	406 306 306 1,015 300 1,978 356 356 95 277 3,464	5,728 9,629 8 5,447 9 8,415 31 5,161 4 1,455 11 4,172 40	6,499 73,94° 8,943 18,466 9,071 37,79 1,247 91,17° 7,066 1,895 14,876 0,993 81,485	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	21 49 0 50 37 8 100 104 0 20 39 0 20 38 50 18 82 93 0 50 39	West West White File Boulog Centra	Valley London Yorkshi chaven a RENCH R gne and al of Fra and A	Extensi re nd Mar Allways Amien ance	ryport	900,0 64,0 1,000,0 100,0 1,500,0 1,280,0 2,400,0
Newcastle and Darlington Newcastle and North Shiele North Union Paris and Orleans Paris and Rouen Preston and Wyre Sheffield and Manchester South Eastern Taff Vale	ds	23 7 39 82 84 19 19 88 30	500,00 150,00 739,20 1,600,00 1,440,00 830,00 1,150,00 2,996,00 465,00	00 00 153,8 01 308,3 00 400,6 00 00 179,8 00 311.7 00 1,530,9 00 154,7	408 376 309 309 1,013 300 1,978 352 353 354 957 3,464 785 590	5,728 9,629 & 6 5,447 & 9 8,415 31 5,161 & 4 1,455 11 4,172 40 0,006 & 8	6,499 73,94° 8,943 18,466 9,071 37,79° 11,247 91,17° 4,191 7,066 11,895 14,87° 0,993 81,48° 8,509 18,41°	nihil 2 0 42 10 0 6 16 16 0 8 0 0 11 8 0 nihil 20 10 6 2 2 2 11 0 0 6 5	21 49 0 50 37 8 100 104 0 20 39 0 20 38 50 18 82 93 0 50 39 0 100 55	West West White Boulog Centra Lyons Orlean	Valley London Yorkshi shaven a RENCH R gne and al of Fra and A	Extensi re and Mar Allways Amien ance vignon.	ryport	900,0 64,0 1,000,0 100,0 1,500,0 1,280,0 2,400,0
Newcastle and Darlington. Newcastle and North Shiele North Union. Paris and Orleans Paris and Rouen Preston and Wyre. Sheffield and Manchester. South Eastern. Taff Vale. Ulster. Varmouth and Norwich.	ds	23 7 39 82 84 19 19 88 30 25	500,00 150,00 739,20 1,600,00 1,440,00 830,00 1,150,00 2,996,00 465,00 519,15	00	406 376 306 1,013 1,978 352 356 359 957 3,464 685 590 348 500 348 500 348	5,728 9,629 8 5,447 9 8,415 31 5,161 4 1,455 11 4,172 40 0,006 8 8,626 5 0,250	6,499 73,94° 8,943 18,460 9,071 37,79° 1,247 91,17° 7,060 1,895 14,87° 0,993 81,48° 8,509 18,41° 5,401 13,850	nihil 42 10 0 6 16 0 16 0 8 0 1 8 0 1 nihil 5 nihil 20 10 6 2 2 11 0 6 5 60 15 0 5 1	21 49 0 50 37 8 100 104 0 20 39 0 20 38 50 18 82 93 0 50 39 0 100 55 8 29 37 16 25	Trent West West White Boulog Centra Lyons Orlear Paris Paris	Valley London Yorkshi chaven a RENCH R gne and al of Frand Arns, Tour and Lyonand Orl	Extensing Ind Market Amien ance vignon.s & Boroons	ryport	900,0 64,6 1,000,0 100,0 1,500,0 1,280,0 2,400,0 2,500,0 1,600,0
Newcastle and Darlington. Newcastle and North Shiele North Union Paris and Orleans. Paris and Rouen. Preston and Wyre. Sheffield and Manchester. South Eastern. Taff Vale. Ulster. Varmouth and Norwich. York and N. Mid, and Leed	ds	23 7 39 82 84 19 19 88 30 25	500,00 150,00 739,20 1,600,00 1,440,00 830,00 1,150,00 2,996,00 465,00 519,15	00	406 376 306 1,013 1,978 352 356 359 957 3,464 685 590 348 500 348 500 348	5,728 9,629 8 5,447 9 8,415 31 5,161 4 1,455 11 4,172 40 0,006 8 8,626 5 0,250	6,499 73,94° 8,943 18,460 9,071 37,79° 1,247 91,17° 7,060 1,895 14,87° 0,993 81,48° 8,509 18,41° 5,401 13,850	nihil 42 10 0 6 16 0 16 0 8 0 1 8 0 1 nihil 5 nihil 20 10 6 2 2 11 0 6 5 60 15 0 5 1	21 49 0 50 37 8 100 104 0 20 39 0 20 38 50 18 82 93 0 50 39 0 100 55 8 29 37 16 25	Trent West West White Boulog Centra Lyons Orlear Paris Paris	Valley London Yorkshi chaven a RENCH R gne and al of Frand Arns, Tour and Lyonand Orl	Extensing Ind Market Amien ance vignon.s & Boroons	ryport	900,0 64,0 1,000,0 100,0 1,500,0 1,280,0 2,400,0 2,500,0 1,600,0
Newcastle and Darlington. Newcastle and North Shiele North Union Paris and Orleans Paris and Rouen Preston and Wyre. Sheffield and Manchester. South Eastern. Taff Vale. Ulster. Varmouth and Norwich. York and N. Mid, and Leed	ds	23 7 39 82 84 19 19 88 30 25 20 29 28	500,00 150,00 739,20 1,600,00 1,440,00 830,00 1,150,00 2,996,00 465,00 519,15 187,50 1,062,50	00 153,8 01 308,3 00 400,6 00 179,8 00 311,7 00 1,530,9 00 154,7 60 20,6 00 62,5 00 167,5	406 376 306 1,013 1,978 352 356 359 957 3,464 685 590 348 500 348 500 348	5,728 9,629 8 5,447 9 8,415 31 5,161 4 1,455 11 4,172 40 0,006 8 8,626 5 0,250	6,499 73,94° 8,943 18,460 9,071 37,79° 1,247 91,17° 7,060 1,895 14,876 0,993 81,48° 8,509 18,41° 5,401 13,856 7,132 55,75°	nihil 42 10 0 6 16 0 16 0 8 0 1 8 0 1 nihil 20 10 6 2 2 41 0 0 6 5 60 15 0 5 1 22 10 010 0	21 49 0 50 37 8 100 104 0 20 39 0 20 38 50 18 82 93 0 50 39 0 100 55 8 29 37 16 25 0 50 100	Trent West West White FI Boulog Centra Lyons Orlean Paris Paris Paris Am't. of	Valley London Yorkshi chaven a RENCH R gne and al of Franch Armand Lyonand Critical and Ro	Extensi re nd Mar Allways Amien ance vignon.s & Bord ons eans	ryport	900,0 64,0 1,000,0 100,0 1,500,0 1,280,0 2,400,0 2,000,0 1,600,0 1,400,0
Newcastle and Darlington. Newcastle and North Shiele North Union Paris and Orleans Paris and Rouen Preston and Wyre. Sheffield and Manchester. South Eastern. Taff Vale. Ulster. Varmouth and Norwich. York and N. Mid, and Leed	dsds and Selb	23 7 39 82 84 19 19 88 30 25 20 20 20 20 20 20 20 20 20 20 20 20 20	500,00 150,00 739,22 1,600,00 1,440,00 830,00 1,150,00 2,996,00 519,15 1,87,55 1,062,50 <b>ancous</b>	00	405 306 306 1,011 300 1,978 352 355 355 357 359 95 277 3,466 785 590 360 23 360 23 360 23 360 23 360 23 360 23 360 24 360 360 360 360 360 360 360 360	5,728 9,629 8 5,447 9 8 8,415 31 4,172 44,172 40,006 8 8,626 10,250 Present	6,499 73,94° 8,943 18,460 9,071 37,79° 1,247 91,17° 7,060 1,895 14,876 0,993 81,48° 8,509 18,41° 5,401 13,856 7,132 55,75°	nihil 42 10 0 6 16 0 16 0 8 0 1 8 0 1 8 0 1 10 0 6 5 6 0 15 0 5 1 2 1 0 0 10 0 0 0 F COMPANY.	21 49 0 50 37 0 50 37 0 20 39 0 20 38 50 18 82 93 0 50 39 0 100 55 8 29 37 0 50 100 0 100 55 8 29 37 0 50 100	Trent West West White Fi Boulog Centra Lyons Orlean Paris Paris Paris Am't of share	Valley London Yorkshi shaven a RENCH R gne and al of Fr and A ns, Tour and Ly and Orl and Ro  Amount paid.	Extensi re Ind Mar Allways Amien ance vignon. s & Boro ons eans uen Div. p.c. per ann.	ryport s. s	900,0 64,0 1,000,0 100,0 1,500,0 1,280,0 2,400,0 2,500,0 1,600,0 1,400,0
Newcastle and Darlington. Newcastle and North Shiele North Union Paris and Orleans. Paris and Rouen. Preston and Wyre. Sheffield and Manchester South Eastern. Taff Vale. Ulster. Varmouth and Norwich York and N. Mid, and Leed  Sten  NAME OF COMPANY.	ls and Selb	23 7 39 82 84 19 19 88 30 25 20 by 28 iscell	500,00 150,00 739,22 1,600,00 1,440,00 830,00 1,150,00 2,996,00 465,00 519,11 1,87,55 1,062,50 <b>Amount</b>	00 153,8 00 153,8 00 400,0 00 179,8 00 311.7 00 154,7 60 20,1 60 62,5 00 167,5	352 356 759 95 759 95 7	5,728 9,629 8 5,447 9 8,415 31 5,161 4,172 40 0,006 8 8,626 9 0,250 6,644 27	6,499 73,94° 8,943 18,466 9,071 37,79 1,247 91,17 7,066 1,895 14,876 0,993 81,486 8,509 18,416 7,132 55,756 NAME C	mihil del 2 10 0 6 16 del 2 10 0 6 16 del 0 16 0 8 0 del 0 16 0 6 5 del 0 15 0 5 1 del 0 10 0 10 0 del 0 10 0 0 del 0 10 0 0 0 0 0 0 del 0 10 0 0 0 0 0 0 del 0 10 0 0 0 0 0 0 del 0 10 0 0 0 0 0 0 del 0 10 0 0 0 0 0 0 del 0 10 0 0 0 0 0 0 del 0 10 0 0 0 0 0 0 del 0 10 0 0 0 0 0 0 del 0 10 0 0 0 0 0 0 del 0 10 0 0 0 0 0 0 0 del 0 10 0 0 0 0 0 0 0 del 0 10 0 0 0 0 0 0 0 del 0 10 0 0 0 0 0 0 0 0 del 0 10 0 0 0 0 0 0 0 del 0 10 0 0 0 0 0 0 0 del 0 10 0 0 0 0 0 0 0 del 0 10 0 0 0 0 0 0 0 del 0 10 0 0 0 0 0 0 del 0 10 0 0 0 0 0 0 del 0 10 0 0 0 0 0 0 del 0 10 0 0 0 0 0 0 del 0 10 0 0 0 0 0 0 del 0 10 0 0 0 0 0 0 del 0 10 0 0 0 0 0 0 del 0 10 0 0 0 0 0 0 del 0 10 0 0 0 0 0 0 del 0 10 0 0 0 0 0 0 del 0 10 0 0 0 0 0 0 del 0 10 0 0 0 0 0 0 del 0 10 0 0 0 0 0 0 del 0 0 0 0 0 0 0 0 0 del 0 0 0 0 0 0 0 0 0 del 0 0 0 0 0 0 0 0 0 del 0 0 0 0 0 0 0 0 0 del 0 0 0 0 0 0 0 0 0 del 0 0 0 0 0 0 0 0 0 del 0 0 0 0 0 0 0 0 0 0 del 0 0 0 0 0 0 0 0 0 0 del 0 0 0 0 0 0 0 0 0 0 del 0 0 0 0 0 0 0 0 0 0 0 del 0 0 0 0 0 0 0 0 0 0 0 del 0 0 0 0 0 0 0 0 0 0 0 0 del 0 0 0 0 0 0 0 0 0 0 0 0 0 del 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 del 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	21 49 0 50 37 0 20 38 0 20 38 50 18 82 93 0 50 39 0 100 55 8 29 37 16 25 0 50 100 Num. of shares.	Trent West West White Fil Boulog Centra Lyons Orlear Paris Paris Paris Paris	Valley London Yorkshi bhaven a server and al of Franch and Arnand Lyand Orland Ro	Extensi re re re re re re Amien ance vignon s & Boro ons eans Upiv.p.c. per ann 70	Last price.	900,0 64,0 1,000,0 100,0 1,500,0 1,500,0 2,400,0 2,500,0 1,400,0 Press pric
Newcastle and Darlington. Newcastle and North Shiele North Union Paris and Orleans Paris and Rouen Preston and Wyre. Sheffield and Manchester. South Eastern. Taff Vale. Ulster. Varmouth and Norwich. York and N. Mid, and Leed Stea NAME OF COMPANY. Anglo Mexican Mint.	ls and Selb m and M Num. of shares. 10,000	23 7 39 82 84 19 19 88 30 25 20 20 20 28 28 25 20 28 28 20 28 28 20 20 20 20 20 20 20 20 20 20	500,00 150,00 739,22 1,600,00 1,440,00 830,00 1,150,00 2,996,00 465,00 519,15 1,87,55 1,062,50 <b>Amount</b> paid.	00 153,6 00 153,6 01 308,3 00 400,0 00 400,0 00 311.7 50 20,0 62,5 00 167,5	405 776 305 306 1,015 3000 1,978 352 355 779 95 777 3,46 785 59 3000 348 600 676 Last price. 15%	5,728 9,629 8 5,447 9 8,415 3 11,455 11,455 11,455 12,406 8 8,626 1,0250 6,644 27	6,499 73,94° 8,943 18,466 9,071 37,79° 1,247 91,17° 4,191 7,066 1,895 14,876 0,993 81,48° 8,509 18,41° 5,401 13,85° NAME 0 Loughborou Monmouths	nihil   2 0   4   2 10   0   6   6   0   6   6   6   0   6   6	21 49 0 50 37 0 20 38 0 20 38 50 18 82 93 0 50 39 0 100 55 8 29 37 16 25 0 50 100 Num. of shares.	Trent West West White Fi Boulog Centra Lyons Orlean Paris Paris Paris Paris 1424	Valley London Yorkshi bhaven a RENCH R gne and al of Fra and A ns, Tour and Ly and Orl and Ro  Amount paid. 1421	Extensi re	Last price.	900,0 64,0 1,000,0 100,0 1,500,0 1,500,0 2,400,0 2,500,0 1,600,0 1,400,0 Press pric
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Newcastle and Darlington. Newcastle and North Shiele North Union Paris and Orleans. Paris and Rouen Preston and Wyre. Sheffield and Manchester South Eastern Taff Vale Ulster. Yarmouth and Norwich York and N. Mid, and Leed  Stea  NAME OF COMPANY.  Anglo Mexican Mint Anti Dry Rot Australian Trust Company General hteam Navigation	ds and Selbom and M Num. of shares. 10,000 10,000 5,700	23 7 39 82 82 19 19 88 30 25 20 28 25 25 25 25 25 25 25 25 25 25 25 25 25	500,00 150,00 739,22 1,600,00 1,440,00 830,00 1,150,00 2,996,00 519,15 187,55 1,062,55 Amount paid. 10 18\frac{1}{2}35	00 153,6 00 153,6 01 308,3 00 400,0 00 179,6 00 311.7 00 1,530,0 154,7 00 62,5 00 62,5 00 167,5	406 376 306 306 306 1,015 300 1,975 357 379 957 779 957 779 957 779 957 960 346 600 230 600 676 230 676 231 241 252 241 253 254 254 274 274	5,728	6,499 73,94° 8,943 18,466 9,071 37,79° 1,247 91,17° 4,191 7,066 1,895 14,876 0,993 81,48° 8,509 18,41° 5,401 13,856 7,132 55,75° NAME O Loughborot Montmouth Melton Mo Melton Mo Mersey and Macclesfiele	nihil   2 0   0   6 16   0   6 16   0   8 0   0   1   0   0   1   0   0   1   0   0	21 49 0 50 37 0 20 39 0 20 38 50 18 82 93 0 50 39 0 100 55 8 29 37 0 50 100 0 50 39 0 100 55 8 29 37 0 50 100 0 50 39 0 50 30 0 50 30	Trent West West White Fi Boulog Centra Lyons Orlean Paris Paris Paris 100 100 100	Valley London Yorkshi haven a RENCH R gne and al of Franch and Arns, Tour and Ly and Orl and Roll and	Extensi rend Mar Allways Amien ance vignon s & Borons eans uen 70 10 10 10 24	Last price. 1140 160 117	900,6 64,6 1,000,6 1,500,6 1,280,6 2,400,6 2,500,6 1,600,6 1,400,6 Press pric
Newcastle and Darlington. Newcastle and North Shiele North Union Paris and Orleans Paris and Rouen Preston and Wyre. Sheffield and Manchester. South Eastern. Taff Vale. Ulster. Yarmouth and Norwich. York and N. Mid, and Leed Stea NAME OF COMPANY. Anglo Mexican Mint. Anti Dry Rot. Australian Trust Company General hteam Navigation Gt Western Steam Pa.	ls and Selb  m and M  m and M  num. of shares.  10,000 10,000 5,700 20,000	23 7 39 84 19 19 25 20 20 28 20 28 20 28 20 20 28 20 20 20 20 20 20 20 20 20 20 20 20 20	500,00 150,00 739,22 1,600,00 1,440,00 830,00 1,150,00 2,996,00 519,12 187,50 1,062,50 Amount paid. 10 18½ 35 14	00	406 306 306 306 1,013 306 1,013 306 1,978 375 975 975 975 975 975 975 975 9	5,728	6,499 73,94° 8,943 18,466 9,071 37,79° 1,247 91,17° 4,191 7,061 1,895 14,876 0,993 81,48° 8,509 18,41° 5,401 13,85° NAME 0 Loughborot Monmouths Melton Mo Mersey and Macclesfiel Neath.	nihil   2 0   4   2 10   6   6   6   6   6   6   6   6   6	21 49 0 50 37 0 20 38 0 20 38 50 18 82 93 0 50 39 0 100 55 8 29 37 16 25 0 50 100 5 shares. 70 2,409 250 3,000 247	Trent West West White Fi Boulog Centra Lyons Orlean Paris Paris Paris Paris 1424 100 100 100 100	Valley London Yorkshi haven a RENCH R gne and al of Franch Romand Lyand Crim and Lyand Crim and Lyand Crim and Lyand Romand Roma	Extensi re nd Mar Allways Amien ance vignon s & Boro ns eans uen 70 10 10 10 10 11 17	Last price. 1140 160 117 15 365	900,6 64,6 1,000,6 100,6 1,500,6 1,280,6 2,400,6 2,500,6 1,600,6 1,400,6 Press pric
Newcastle and Darlington. Newcastle and North Shiele North Union Paris and Orleans. Paris and Rouen. Preston and Wyre. Sheffield and Manchester South Eastern Taff Vale Ulster Yarmouth and Norwich York and N. Mid, and Leed  Stea  NAME OF COMPANY. Anglo Mexican Mint Anti Dry Rot. Australian Trust Company General hteam Navigation Git Western Steam Pa Metropolitan Wood Pay	ls and Selb m and M Num. of shares. 10,000 5,700 1 20,000	23 7 39 84 19 19 88 30 25 20 20 20 28 20 30 10 10	500,00 150,00 739,22 1,600,00 1,440,00 830,00 2,996,00 465,00 519,15 1,87,55 1,062,50 <b>aneous</b> 10 18\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	00		5,728	6,499 73,94° 8,943 18,466 9,071 37,79° 1,247 91,17° 4,191 7,061 1,895 14,876 0,993 81,48° 8,509 18,41° 5,401 13,856 NAME 0 Loughborout Monmouths Melton Mo Mersey and Macclesfiel Neath. Oxford	nihil   2 0   0   6 16   6   10   16   8   0   16   16   8   0   16   16   16   16   16   16   16	21 49 0 50 37 0 50 37 0 20 38 50 18 82 93 0 50 39 0 100 55 8 29 37 16 25 0 50 100 Num. of shares. 70 2,409 250 500 3,000 247 1,786	Trent West West White Fi Boulog Centra Lyons Orlear Paris Paris Paris Faris 1421 100 100 100 100	Valley London Yorkshi haven a RENCH R gne and al of Frand A as, Tour and Lycand Orland Ro Amount paid. 1421 100 100 100 100 100 100 100	Extensi re	Last price 1140 117 15 365 505	900,6 64,6 1,000,6 1,500,6 1,280,6 2,400,6 2,500,6 1,600,1 1,400,6 Press pric
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Newcastle and Darlington. Newcastle and North Shiele North Union Paris and Orleans Paris and Orleans Paris and Rouen Preston and Wyre. Sheffield and Manchester. South Eastern. Taff Vale. Ulster. Yarmouth and Norwich. York and N. Mid, and Leed Stea  NAME OF COMPANY. Anglo Mexican Mint. Anti Dry Rot. Australian Trust Company General hteam Navigation Gt Western Steam Pa. Metropolitan Wood Pav. Patent Elastic Pav. Peninsular and Oriental. Ditto.	ls and Selb m and M Num. of shares. 10,000 5,700 1 20,000	23 7 7 82 82 84 19 19 88 30 25 20 25 20 25 20 25 20 25 25 20 25 25 25 25 25 25 25 25 25 25 25 25 25	500,00 150,00 739,22 1,600,00 1,440,00 830,00 1,150,00 2,996,00 465,00 187,55 1,062,50 Amount paid. 10 18\frac{1}{35} 14 100 6 1	00	406 306 306 306 306 1,013 300 1,978 352 352 759 953 759 953 759 953 759 953 759 953 759 953 960 960 960 960 960 960 960 970 154 254 254 254 254 254 255 664 164 164 164 164 164 164 164	5,728 5,629 5,447 8,415 5,161 4,455 11,455 10,006 8,626 10,250 Present price. 15‡	6,499 73,94° 8,943 18,466 9,071 37,79° 1,247 91,17° 4,191 7,061 1,895 14,876 0,993 81,48° 8,509 18,41° 5,401 13,85° NAME O Loughborot Monmouth Melton Mo Mersey and Macclesfield Neath. Oxford. Regents or Shropshire. Shorpshire.	nihil   2 0   42 10 0 6 16   6   8 0   6 16   8 0   6 16   6   6   6   6   6   6   6   6	21 49 0 50 37 0 50 37 0 50 38 0 50 38 0 50 39 0 100 55 8 29 37 16 25 0 50 100 2,409 250 3,000 3,000 800 800	Trent West West West White FI Boulog Centra Lyons Orlear Paris Paris Paris 1424 100 100 100 100 100 1334 125	Valley London Yorkshi thaven a RENCH R gne and al of Franch R and Arns, Tour and Lyand Orland Roll 100 100 100 100 100 100 100 100 105 33 1 125 150	Extensi re	Last price. 1140 160 117 15 365 505 25 123	900, 64, 4, 600, 64, 4, 600, 64, 4, 600, 64, 64, 64, 64, 64, 64, 64, 64, 64, 64
Newcastle and Darlington. Newcastle and North Shiele North Union Paris and Orleans Paris and Orleans Paris and Rouen Preston and Wyre. Sheffield and Manchester. South Eastern. Taff Vale. Ulster. Yarmouth and Norwich. York and N. Mid, and Leed Stea  NAME OF COMPANY Anglo Mexican Mint. Anti Dry Rot. Australian Trust Company General hteam Navigation Gt Western Steam Pa. Metropolitan Wood Pav. Patent Elastic Pav. Peninsular and Oriental. Ditto. Polytechnic Institution.	ls and Selb m and M Num. of shares. 10,000 10,000 5,700 20,000 15,000 10,000 11,493 3,200	23 23 29 29 29 29 29 29 29 29 29 29 29 29 29	500,00 150,00 739,22 1,600,00 1,440,00 830,00 1,150,00 465,00 519,15 1,87,55 1,062,50 <b>aneous</b> 10 10 18\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	00	406   306	5,728 5,629 5,447 8,415 1,455 11,455 11,455 11,4,172 40,006 8,626 5,0250 154 Present price. 154 27	6,499 73,94° 8,943 18,466 9,071 37,79° 1,247 91,17° 4,191 7,061 1,895 14,876 0,993 81,48° 8,509 18,41° 5,401 13,856  NAME 0 Loughborout Monmouths Melton Mo Mersey and Macclesfiel Neath. Oxford. Oxford. Oxford. Oxford. Somerset co. Stafford and	nihil   2 0   42 10 0 6 16   6   10 16 0 8 0   1   10 0 6 16   6   10   10   10	21 49 0 50 37 0 50 37 0 20 38 50 18 29 37 0 50 180 50 39 0 100 55 8 29 37 16 25 0 50 100 50 50 3,000 3,000 800 700	Trent West West White Fi Boulog Centra Lyons Orlear Paris Paris Paris Faris  Am't. of share 1424 100 100 100 100 100 100 150 150 150 140	Valley London Yorkshi haven a RENCH R gne and al of Frand Aran, Tour and Lycand Orland Ro  Amount paid.  1421 100 100 100 100 100 125 125 150 140	Extensi re	Last price. 1140 160 117 15 505 25 120 123 480	900, 64, 4, 000, 64, 1, 000, 64, 1, 1, 1, 1, 1, 1, 1, 2, 1, 2, 1, 2, 1, 2, 2, 4, 1, 2, 2, 4, 1, 4, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,
Newcastle and Darlington. Newcastle and North Shiele North Union Paris and Orleans. Paris and Orleans. Paris and Rouen. Preston and Wyre. Sheffield and Manchester South Eastern. Taff Vale Ulster. Yarmouth and Norwich York and N. Mid, and Leed NAME OF COMPANY. Anglo Mexican Mint Anti Dry Rot. Australian Trust Company General hteam Navigation Gt Western Steam Pa Metropolitan Wood Pav. Patent Elastic Pav Peninsular and Oriental Polytechnic Institution Reversionary Int. Soc	ls and Selb m and M Num. of shares. 10,000 10,000 5,700 20,000 15,000 10,000 11,493 3,200	23 23 29 29 29 29 29 29 29 29 29 29 29 29 29	500,00 150,00 739,22 1,600,00 1,440,00 830,00 1,150,00 2,996,00 465,00 187,55 1,062,50 Amount paid. 10 18\frac{1}{35} 14 100 6 1 50 40 100	00	406   306   306   306   307   306   307   306   307	5,728	6,499 73,94° 8,943 18,466 9,071 37,79° 1,247 91,17° 4,191 7,066 1,895 14,876 0,993 81,48° 8,509 18,41° 5,401 13,856 NAME 0 Loughborot Monmouths Melton Mo Mersey and Macclesfiel Neath. Oxford Regents or Shropshire. Somerset co Stafford and Shrewsbury	nihil   2 0   42 10 0   6 16   6   6   6   6   6   6   6   6	21   49   0   50   37   0   10   10   10   10   10   10   10	Trent West West White Fi Boulog Centra Lyons Orlear Paris Paris Paris 100 100 100 100 100 100 100 100 100 10	Valley London Yorkshi haven a RENCH R gne and al of Franch Ans, Tour and Lycand Orland Ro Amount paid. 1421 100 100 100 100 100 125 150 150 140 125	Extensi re	Last price. 1140 160 117 15 365 505 120 123 480 230	900, 64, 64, 64, 64, 64, 64, 64, 64, 64, 64
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STATE WORKS.	Len in m		Cost.		843.		The Table	-	State (	Canale	are all 4 fe	et deep, and I feet in leng	the locks
Y. IBlack river canal		-	1,524,967	Income	Expend.	Income.	Expend						
" 2 Cayuga and Seneca	21		237,000		10,953	24 618	14 44	3 anotic	e six i	millio	ons paid t	o the canal re not incl	fund fr
" 3 Champlain canal	64		1,251,604			116,739	14,44	estim	ate of	cost	The G	enesee vall	ev and
4 Chemung	23		684,600			14,385	12,74	0 Black	river	cana	als require	e large sur	ns for th
5 Chenango	. 97		2,420,000	16,19	5 15,967	22,179	15,96	0 comp	letion.	the i	nterest of	which add	itional s
6 Crooked lake	1 8		156,777	46	3,674	1,498	3,95	l is mu	ch gre	eater	than the e	stimated gr	oss inco
7 Erie—enlargement of	363	1	2,648,852	1,880,31	6			of the	ese car	nals	when fini	shed. Th	e sums
OGenessee valley	. 120		3,739,000					. quire	d to co	mple	te these to	wo canals a	re \$2,0
9 52 miles opened, cost \$1,500,000			20.000		2 13,819	19,641	15,55	7 000 a	nd \$6	00,00	0, making	their total	cost w
Holoneida lake	6		50,000	22	2,239	621	1,63	finish	ed \$5,	553,0	00 and \$2	,409,000; a	in expe
11 Oswego	38		565,437		7 22,742	56,165	28,59	g ture i	ncurre	ed on	estimated	incomes (	admitte
13 Delaware canal	25 60		******			7,381	00,00					\$14,000 re	
14 French creek.	45					109,278	22,87	A 14				the works	
15 Seneca river towing path	43					381	*****					19,401; for	
16 Columbia railroad	82		03,210	*****		443,336						30 million	
17 Eastern division	36					179,781	138 91	Th	e recei	ipts fo	or 1844 we	ere as follo	
18 Juniata canal	93		*******			110,101	100,010	Cana	tolls,	**	or 1844 we	100000000	578
19 Portage railroad	130					351,102	248.943	Kailr	oad to	lls,	-		252
20 Western division canal	105	(1.				002,202	-10,01	Motiv	e pow	er,			319
21 North branch Susquehannah canal	73	31						Truck	rs,	-			13,
22 West " " "	72	1.				101,949	57,633	of wh	ich \$5	85,92	22 is from	118 miles	of railre
io 23 Hocking canal	56	,	975,130		7	5,286	4 139	and \$	578,40	14 iro	m 550 mi	les of cana	1.
24 Miami canal	1 85		1,660,742	68 64	0 38,826	77,844	0000		cana	la of	Thin are	emmorted	NT 9 1
25 Miami extension	105		2,856,636	8.20	1	12,723	14.74	perty	tax of	51 n	nills on th	e dollar.	There
26 Miami northern division	35	1	322,000			unfin'd.	1 2 0	8533 m	11/08/01	cana	al in the S	tate, which	vielde
27 Muskingum	91		1.627.318	23.16	7	00 905	15,02	1843	\$471,6	23, a	nd in 18	44 \$515,39	3, the
28 Ohio	224		4,600,000		4 123,398	343,711	112 016	Ist Ja	n. 43	being	2 St. 5.577.	233. The	increas
29 Wabash	91	1	3,028,340	35.92	2 6,400	48,589	10 015	144 OV	er '43	is on	lv \$43.77	), though t	ne vear
30 Walhonding	25	-	607,269		8 39,005	1,977		has ex	hibite	dag	greater in	crease thro	ughout
31 Western road	31		255,015	. 7,25	4 1,782	8,747	2,929				r before k		
32 Sundry works		1	1,000,000					The	se 21	milli	ions on su	indry work	s yield
33 Maume canal	1							incom	e wha	tever			
· 34 Sundry works	1	. 11	0.000,000					The	centr	al ra	ilroad vie	lds above	per ce
ch 35 Central railroad	110		1,842,308	149,98	7 75,960	211,170	89,420	and is	the or	nly S	tate work	—the Erie	canal
36 Southern railroad	68		936,295	24,06	4 7,907	60,341	70,000	cepted	-whi	ich is	able to st	and alone.	
GIVITA	Leng		-	184	3. Di	v. 1	844.	Div.		1.		EMARKS.	7
CANALS.	mile		Cost.	Gross.		t. Gross.	Nett.	per cent.	of stock.		In the	EMARKS.	
Blackstone												-31.5	100
Bald Eagle Navigation	25		400,000								_		
Beaver and Sandy, (part) Charleston, (S. C.) Chesapeake and Ohio		1	,000,000							N	Ve may, p	erhaps, at s	ome fut
Charleston, (S. C.)												ed to give t	he parti
Chesapeake and Ohio	184	12	2,370,470	47,637						lars	of all the	se canals.	** .
Conestota	12		300,000	*****			****			T	he Chesal	peake and (	Jhio ca
Delaware and Chesapeake	13	1							26			mpleted to	
SchuylkillFarmington.	108	13	,500,000	79,795	02,221	. 190,693	120,624	1			es, hence	its trifling i	ncome
James river and Kenhawa							*****			1.20	ne enlarge	ement of the	e Schi
Middlesex										KIII	canai nas	canal was	lately
Port Deposit	10		200 000				*****		· cerie	for a	ne Mollis	n about on	a formet
Delaware and Raritan	10	10	200,000	00.000	29.908	121 401	04 455			of it	ne muno	n, about on is said in	the par
Southwark	40	1 4	200,000	99,023	33,321	. 131,491	04,400			that	it is to be	anlarged	Web
Tide Water		0	300,000				*****			that	no report	enlarged.	of the
Union.	45 80		2,000,000	*****			*****			Seen	tment of	any engine	or the
	101		.000,000						28	Pom	unent of	any engine	CI.
Dismal Swamp	101		,000,000						40				
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~	~~	~~~~	~~~	~~~	~~~	~~~		~~~	~~		Incom	
CANADIAN CANALS.	Leng in mile	No	o. of Lockas cks. in feet	Length	Size of loc of Width.	Depth on mitre sill.	Bottom.	of canal. Surface	Estim	ate.	to Sept. 1843.	1843.	1844.
The Welland canal.	mile	-		chambe	feet.	feet.	feet.	feet.			2,485,572	64,658	1011
ain trunk from Port Colborne to Port Dalhousie	28		31 328	150			45	81	0,520,	,012	,100,010	01,000	
				-				3000				CS 7	
inction branch to Dunville f not added			1 6	150			35	71				-	
road creek branch to Port Maitland below.	11	-2	1 6	200	45	9	45	85				41157	
The St. Lawrence canal												1777	
alops and Port Cardinal	2		2 7	200	45	9	50	90				5 3 m 35 m	
apid Plat			2 11 1-		45	9	50	90	672	,498	973		
arren's point	3	-4	1 31-		45	9	50	90				The state of	
wall, passing the Long Sault rapids	11 1	-2	7 48	200		9	100	150	865	,372	1,665,663		
nharnois, do. Coteau, Cedars and Cascades road	1111	-4	9 82 1-		45	9	80	120			275,426	00.000	
hine, do. Lachine rapids			5 44 1-	2 200	45	9	80	120	old ca			29,288	
gement of do.		!_	• • • • • • • •						1,001	,333	64,439		
Total from lake Erie to the seambly	66		9 74	120	24	6	36	60	200	,000	440,000	1,409	
	~~	gth in	~~~		1843.	Div.	184	~~~	Div.	~			
COAL COMPANIES.		iles.	Cost		Income, oss,   Nett	per	Incom Gross.		per cent.	of	100	REMARK	B.
		108			203 196,7			110114	Centra	130			100
Delaware and Hudson					WUW 130.1	UNI AU I			1				
Delaware and Hudson								*****	Jacar.	31			
Delaware and Hudson	20	72		,000				******	1	31			7.1

		Length			RA!L!		184	3	Div. 1	184	4.	Div.	Previ-	Veek e	
	RAILROADS.	in	Cost.	and	of	on	Inco	me.	per	Inco	me.	per	ous	April Shares.	d.
		miles.	_	debts.		hare	Gross.	Nett.	cent.	Gross.	Nett.	cent.			
Me.	1 Portland, Saco and Portsmouth	50	1,200,000				89,997	47,166	7	124,497	74,841	6	1131		102
. H.	2 Concord	35	750,000									12	704		139
ass.	3 Boston and Maine	56	1,485,461				178,745	68,499	6	233,101	86,401	64	1104		112
44	4 Boston and Maine extension		4 455,703	unfin.											
66 /	5 Boston and Lowell	26	1,863,746				277,315		.8	316,909			1204		120
66	6 Boston and Providence	41	1,886,135	none.	18,600	100	233,388	110,823	6	282,701			1081		109
66	7 Boston and Worcester	44	2,914,078				4 0,141	162,000	6	428,437	195,163	71	1161	10	117
66	8 Berkshire	21	280,260	not stated			****	17,500	7	17,737					
66	9 Charlestown branch		. 2,388,631						13	34,654	13,971		701		82
33	10 Eastern	54	1,150,000	justopn'd			279,563	140,595	6	337,238	227,920	8	1091		109
86	11 Fitchburg	50	380,000	just opn'd						42,759	26,835		120		124
33	12 Nashua and Lowell	14 1	$2 \mid 430.962$				84,079		8	94.588	34,944	10	121		126
66	13 New Bedford and Taunton	20	172,883				50,671	24,000	6	64,998	24,000	6			
11	14 Northampton and Springfield		. 2,170,366	unfin.											
46	15 Norwich and Worcester	59	87,820		16,535	100	162,336	24,871		230,674	99,464	3	701		72
86	16 Old Colony		63,075	unfin.									102		104
44	17 Stoughton branch	4	250,000												
22	18 Taunton branch	11						20,000	8	96,687	20,000	8	118		
66	19 Vermont and Massachusetts		41,516												
66	20 West Stockbridge	3	17.686.202	200		100						4			
11	21 Western, (117 miles in Mass.,)	156	8,431	4,686,202	30,000		573.882	284,432		753,753	439,679	3	1024		101
44	22 Worcester branch to Milbury		1,244,12;	506											
**	23 Housatonic, (10 months,)	74	1,100,000	)						150,000			82		
on.	24 Hartford and New Haven	38	600,000	100,000	10,000	100						6	89		
66	25 Hartford and Springfield	25 1	-2 2,600,000	400,000	2,000	100									
22	26 Stonington, (year ending 1st Sept.,)		336,211	650,000	13,000	100	113,889			154,724	79,845		41		
N.Y.	27 Attica and Buffalo	31	1,796,349	2			45.896	7.522		73.248	48.033	0			
33	28 Auburn and Rochester	78	766,657	200,000	14,000	100	189,693	112,000		237.667	152.007	6	106		
22	29 Auburn and Syracuse	26	200,000	)		1334	86,291	27,334		96,738	52,544	6	116		
48	30 Buffalo and Niagara	22	5,000,000	)	1,500								100		
**	31 Erie. (446 miles.)														29
23	32 Erie, opened	53	1,206,23					48,000		126,020	59,075				
66	33 Harlem	26	575,613	3						140,685			70		72
48	34 Hudson and Berkshire	-31	1,610,221			50							14		
33	35 Long Island			392,340									751		76
44	36 Mohawk and Hudson	17	303,658	400 000	10 000	100	60 048	58,780					641		61
66	37 Saratoga and Schenectady	22	640,800	0			42.242	3,000	1	34,666					
44	Schenectady and Troy	20 1	-2 1,115,89	7			28 043			32,646			1		
13	39 Syracuse and Utica	53	727.339	none.	16,000	621	163,701	72,000		192.061	120,992		115		
22	40 Tonnawanda.		180,000	0	20,000		76,227	12,000		114,177	75,865				
33	41 Troy and Greenbush		475 80	1				-			1				
33	42 Troy and Saratoga.		2 168 16	5			44 395	91 000		20 500	0.071	91			
**	43 Utica and Schenestady		3 200 00	none.	20,000	100	277 164	180,000	9	221 020	100,004	8	129		
N. J	44 Camden and Amboy		500,00	0	20,000	100	689 839	383 880		794 101	404 056	0	1102		111
44	45 Elizabethtown and Somerville		500,00				002,002	,,000		104,131	101,000		1101		
66 .	46 New Jersey		2 000 00	0									934		
66	47 Paterson		500,00	0			******	1	1			G	85		
Pa.	48 Beaver Meadow		1 000,00	0								0	00		
11	49 Cumberland Valley		1 250 00	0			******								
23	50 Harrisburg and Lancaster		860,00	0									30		
13	51 Hazleton branch	10	120,00	0									30		
11	70 Timbe Colombian	29	000,00	0										******	
66	52 Little Schuylkill	29	600,00	0			******								
66	53 Blossburg and Corning		100,00	0											
48	54 Mauch Chunk		215.00	0					10					*****	
86	55 Minehill and Schuylkill Haven		900,00	0					123				143		1
66	56 Norristown		400.00	0								1	61		1
**	57 Philadelphia and Trenton	* 30	400,00	0									104		1
-64	58 Pottsville and Danville	29	1-2 1,500,00	07 447 570	40.000	E0.					0.00				1
25	59 Reading	94	1,000,00	07,447,570	40,200	90				597,613	343,511		501		
23	60 Schuylkill valley		1,00,00	0			00.000								1
- 66	61 Williamsport and Elmira		400,00	0			20,000	200 000			210.00		40:		40
_	62 Philadelphia and Baltimore		14.400.00		1		1 43 1143	HERLING CHER		1	2210 OO	M	1 430	1	4%
Del.			7 600,00	0			FRE 00-	200							
Md.	64 Baltimore and Ohio, (1st Oct.)	188	17.025.00	Manageres	1		1575 235	1979 466		1350 600	1346 O46	12	1481		50
**	65 Baltimore and Susquehanna	58	3,000,00	0						1		1	5		1 6
va.	66 Baltimore and Washington	38	1,800,00	0			177,227	71,691		212,129	104,529		84		
Va.	67 Greensville and Roanoke		151 200.00	U					1	.	1	1	1	1	1
06	68 Petersburg and Roanoke		969.88	0	1				1	199 871	79.898	3 3			1
66	69 Portsmouth and Roanoke	. 78	_2 850,00	0							1				
66	70 Richmond and Fredericksburg		1.200.00	0							1	1			
44	71 Richmond and Petersburg	* 22	1-2 700,00	0											
	72 Winchester and Potomac	* 32	500.00	0						175.41		1			1
	73 Raleigh and Gaston	* 84	1.911.360.00	(1)								1	1		
**	74 Wilmington and Raleigh	* 161	11.800.00	0											
5. (	75 South Carolina	136	5.671.45	2	34.410	75				532,871 328,425	140,196	5			
	76 Columbia	66	0,011,10		32,210	10	201,464	77,45		328,425	180,704	1			
Ga.	77 Central	100	2,581,72	3			1007 536	03 100	1						
66	78 Georgia	. 147	1-2 2,650,00				1247 1120	11128 201	11	. 1948 1194	11147 500	(1)	1	1 - 1 - 1	1
33	79 Montgomery and West Point	. 89		170,000		1100	L. Charles		1	35 000	15 000	)			
Ky.	80 Lexington and Ohio	. 40	500,00						1	.	1				1
Ohi	81 Little Miami	. 40	450.00	13						. 1	1	1	- 1		
66	82 Mad river	. 40	400 00	Militares		1									
Ind	. 83 Madison and Indianapolis	. 56	152.00	00								1	24.	1	1
	84 Champlain and St. Lawrence	1 25	010.00	M	.1	1	.1	19.00	1	1 50 000	04 000				1

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#### PRINCIPAL CONTENTS.

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#### AMERICAN RAILROAD JOURNAL.

PUBLISHED BY D. K. MINOR, 23 Chambers street, N.Y

#### Thursday, May 8, 1845.

delayed again.

The Hon. John A. Dix will please accept our thanks for valuable public documents.

#### ELECTRO MAGNETIC TELEGRAPH.

We are indebted to Francis O. G. Smith, Esq., the author, for a copy of the Vocabulary for Secret Correspondence, by means of the Electro Magnetic Telegraph, for which he will please accept our thanks. We hope soon to see the wires extended from Baltimore to Boston, that its utility may be better appreenjoyed by all alike-first come first served.

The Pennsylvania Inquirer says that "the one week the receipts were nearly \$1,000, and the and when killed by the locomotive, the company total receipts since the opening of the present year, prosecuted and put to heavy costs. have been nearly a million of dollars. In one week they carried 35,497 passengers. It is valuable stock."

"Nearly \$1,000" a week, and "nearly a million of dollars since the opening of the present year," do carelessness in those who manage railroads. not correspond-which is correct?

A suit for damages was tried last week in Norristown, brought by James Jones against the Philadelphia and Reading railroad company, for the recovery of damages for the destruction by fire of the plaintiff's mills, in Upper Merion township, caused

by sparks from the locomotive.
"The defendants contended that the increased risk of the destruction of the plaintiff's mill by fire, was a part of the damage he had sustained by the loca-tion of the road so near his mill, and that the contingency of its destruction by fire communicated from the defendants' locomotives, in their ordinary use, was a part of the damages which he must have considered he might sustain at the time he gave the release for all such damages, and that he was, therefore, already paid for this damage, if it occurred
without any default of the defendants or their agents.

The Montgomery and West Point railroad without any default of the defendants or their agents.

be, when completed, 89 miles long—of which is not a completed. The court concurred in this view of the case

The jury returned a verdict for plaintiff of \$3,658.

Correspondents will oblige us by sending in their | place, May 2d, east of Carmans river, and May 3d near Suffolk station-by which large amounts of property have been destroyed, and many poor people made to suffer. This should not be, if there is a possibility of avoiding it, which we believe may be done at trifling expense to each engine, viz: by use of the improved smoke stack, of French & Baird, of Philadelphia-as it is not uncommon at the south, we are informed, to carry cotton bales in open cars, attached to a locomotive having one of these stacks

#### RAILROAD ACCIDENTS.

It is but a day or two since we were congratulating ourselves to a friend, the superintendant of an eastern railroad, that there had been very few serious accidents for some time past, on our railroadsbut on opening the Traveller we find that "a man was killed on the track of the Lowell railroad Friday morning, about two miles from the city, having been run over by the 11 o'clock train, going up .-This number of the Journal has been delayed The man was walking towards Lowell on the left somewhat in consequence of the prevailing moving hand track, and seeing a merchandize train coming mania of our city-but as "moving day" does not down, stepped on to the other track, not perceiving usually come but once a year, we hope not to be thus that the passenger train was immediately behind him going up, and supposing, as is presumed, that the bell and noise of both engines proceeded from the merchandize train. The passenger train struck him, knocked him across the rails, and ran over him, cutting his arm nearly off and his body almost in two, and of course killing him instantly. His name was Valentine Gay, a respectable citizen of Lyman, Me."

An accident may occur in this way without blame to those who manage the engine-yet it should incite them to double diligence, as it is known to us all that people will walk on the track and expose ciated, and more widely enjoyed. We also trust their own lives, while others are so criminally carethat it may not be made subservient to the few, but less, that they allow their cattle to run on the track, and thus expose the lives of the hundreds who are obliged to travel-indeed we have been told of inrailway between Paris and Orleans pays well. In stances in which cattle have been salted on the track,

> Such baseness can hardly be credited in a christian community. When detected, it should be visited with the severest punishment-as should also all

> Railroad companies should be fully protected in their rights, and allowed liberal profits and privileges; and then the rights, safety and lives of their passengers should be rigidly and unceasingly guarded in return.

> MONTGOMERY AND WEST POINT RAILROAD-GEORGIA. This, together with several other railroads, has not been found in our list of American Railroads, for the reason that we could not obtain what we supposed to be an accurate account of it. We have just received from an unknown hand the following statement, which enables us to place it in the list, as we desire to, and shall always do, when we receive

The Montgomery and West Point railroad will be, when completed, 89 miles long-of which is now finished 40 miles, graded only 23 miles, not yet commenced 26 miles. The cost thus far has been \$520. The destruction of property by fire from locomo- 000-of which, \$350,000 has been raised by sale of tives is becoming oppressive to the people-and it is stock, and \$170,000 by loans and debts incurred high time that measures were adopted to prevent so They have 4 locomotives, 3 passenger and 20 freight frequent a repetition of them. We find in the Eve- cars. The gross earnings for 1844 were \$35,000 ning Post a letter dated Brookhaven, L. I., May 5th, and its expenses \$20,000. The original price of giving an account of a destructive fire in the woods, shares was \$100-yet, like many other important near the Medford depot, on the 14th of April, which but unfinished works, there are few or no sales b destroyed timber, fences, cord wood, a house and which its present value can be arrived at. It will, transported over this road destroyed timber, fences, cord wood, a house and which its present value can be arrived at. It will, transported over this road destroyed timber, fences, cord wood, a house and which its present value can be arrived at. It will, two barns; and since that date, the same letter states, however, we think, eventually be completed, and Per last report, there has been three other fires from the same cause give a good return upon the investment—and it bealong the same road, viz: 29th April, near the same hoves those engaged in its management, and inte-Total,

	rested in its completion, to make vigorous and con- stant efforts to effect so desirable an object.
3	THE COAL TRADE.—Sent by railroad from Potts-
-	ville and Port Carbon, for the week ending on Thurs-
	day evening last
-	History I. and the least of the control of the cont
f	Total       50,284-06         From Schyulkill Haven       7,436-08         Per last report       84,921-17
,	From Schyulkill Haven
	Per last report84,921-17
	Total
	Total
-	
3	Per last report
-	Total
-	From Schuylkill Haven—total up to Thurs-
1	day evening
	Control of the contro
5	Total3,115-06
	From Port Clinton
5	ALCOHOLD THE
5	6,631·09 Total by canal
a	Total by canal
0	
e	Total by railroad and canal177,234-08
,	Freights from Pottsville to Philadelphia, 70 cents,
-	to New Tork, pr ou.
,	The following are the rates of freight from Richmond and the Schuylkill to eastern ports:
Q.	To Salem S9 00 to 9 19 per ton
13	To Boston
e	To Boston. 2 18 to 2 00 " To Portland. 2 25 to " To New Bedford. 1 45 to 2 50 "
-	To Providence and Fall river. 1 40 to 1 50 "
S	
	PINE GROVE COAL TRADE.—Transportation on
	Union canal railroad for this season, up to April 1.
e,	Tons ewt. qr.  January, - 271 1 1  Feb. and March, - 1259 18 3— 1531 0 0
-	Feb. and March, - 1259 18 3- 1531 0 0
ί,	Amount transported on Swatara railroad, during
y	March, 1845 548 16 0 Transportation on Union canal railroad from 1st
	to 15th April, inclusive, 2136 1 2
n	to 15th Ápril, inclusive, 2136 1 2 Per last report, - 1531 0 0— 3,667 1 2 Transportation on Swatara railroad, from 1st to
d	Transportation on Swatara railroad, from 1st to
11	15th April, inclusive, - 1,077 0 0 Per last report, - 548 16 0— 1625 16 0
	THE RESERVE OF THE PARTY OF THE
n	LEHIGH COAL TRADE.—Despatched this season up to 4th mo. 26th, 1845, from Mauch Chunk.
-	Lehigh coal and navigation co.
r	The state of the s
-	Room Run, - 1275—5690 Beaver Meadow railroad and coal co., 1874
	From Penn Haven.—Hazleton coal co., 2010
	From Rock Port.—Buck Mountain coal co., 654
S	10228
-	
e	Total shipments from Mauch Chunk. Lehigh
00	coal and navigation co. Summit mines, - 13210
S	Room run do., 3136—16356
e	Beaver Meadow railroad and coal co., 5743
	From Penn Haven—Hazleton coal co., 5133 From Rock Port—Buck Mountain coal co., 1408
11	1 Total Lova 2 of Duck Mountain Conf Co.; 1400
N	28,630
-	WYUMING COAL TRADE-Total to April
-	26th, 5758
of	MINEHILL AND SCHUYLKILL HAVEN RAILROAD.
1.	The following is the amount of coal transported over this road, for the week ending on Wednesday eve-
nt ),	ning last: 8,623-16
of	Per last report, 86,329.07
t,	Total, - 94,953-03
y	Mount Carbon Railroad.—The amount of coal
Ì,	transported ower this road for the week ending on

ATLANTIC AND PACIFIC, OR OREGON RAILROAD.

We find the following communication from Mr. Whitney, the bold projector of the railroad to Oregon, in the National Intelligencer. Mr. W. proposes to make an excursion, or reconnoissance, during the ensu- means of effecting the object may prove ad- something must be done. But what? ing summer, of a part, say seven or eight equate, and, if adequate, dispense with the hundred miles of the contemplated railroad raising of capital either abroad, or at home, the legislatures of the several States require to the Pacific ocean. He says that several young gentlemen will accompany him, and derive its value from the execution of the servers, sufficient for the largest number of he invites others to do so. The editor of the National Intelligencer says, that "such a trip will not only offer all the pleasures of a ritory which will more than replace to our It ought to be done forthwith. We go yet journey over a wide, a various, an important and but little traversed region, but couple with it an object worthy of the attention, if it succeeds, the national and commercial resulting from disasters on board their boats; and probably the advantage, of an intelli-benefits attained must be very great, we and should be required to show that such gent company, able by their diversity of must avow ourselves persuaded that the disasters and deaths were not the result of knowledge, to assist and inform each other as to everything that may present itself along their route, in geology, and other parts of natural history and science."

We fully coincide with the editor of the Intelligencer, and would go much further and say that such an excursion would be an hundred times more healthful, and a thousand times more useful, to the educated and disposed at present to think that this part of persons or our friends. wealthy young men of our country, than an the project may readily be accomplished by excursion to Saratoga, or Cape May, or even to Europe. By adopting this course, they would not only improve their health, but also learn the extent, the fertility and the resources of their native land, which they may be soon called to aid in governing, and what is more important still, in defending from foreign aggression-instead of learning the follies and vices of fashionable resorts, May for Green Bay, follow the lake down and foreign countries. The one will make to Milwaukie, thence west to the Missouri ment of every life on board of her, will be intelligent, healthy and useful men, instead river, and return by St. Louis. of, as is often the case, idle, dissipated and vicious fops.

"Interesting Excursion .- The expedition promised in the subjoined note from the gentleman who has conceived the great project of what may be called the continental railway, is certainly a very inviting one to such as propose to themselves a summer's travel. Such a trip will not only offer all the usual pleasures of a journey over a wide, a various, an important and little traversed region, but couple with it an object worthy of the attention, and probably the advantage, of an intelligent company, able by their diversity of knowledge, to assist and inform each other as to everything that may present itself along their route, in geology and other parts of natural history and science.

decided opinion as to the feasibility of Mr. Whitney's bold idea, we confess that its mere vastness, though suggesting to many the notion of its being visionary, by no steamboats. means implies, of itself, to us such a con- "The re

the possibilities of his plan. We know that lating steamboat navigation. Shall the projudge of the scheme, are already convinced ances be suffered to sacrifice at their plea. of its reasonableness.

by moneyed subscription; since the line of all steamboats which navigate their waters, lands to be granted by our government will to be supplied with life boats and life prework itself; since the gift will, if the thing passengers which such boats can accommosucceeds, add a worth to the contiguous ter. date. To all this we give our cordial assent. public domain the price of what is to be further; and say, that in our opinion the ofparted with; since if the plan fail the grant ficers and directors of all passenger-carrying is to revert; and since, on the other hand, boats should be held liable for all loss of life scheme deserves to be very seriously exam- bad management or carelessness on their ined, and by no means rejected as extrava- part, or else be subject to indictment for man-

the first step in the proposed line of com- men are "common carriers;" and as such, munication seems quite practicable - the are now held responsible by law for all proroad from lake Michigan to the Mississippi perty entrusted to their care; and on the and for which the face of the country to be reason, they should be held liable for all distraversed offers unusual facilities. We are asters resulting in the injury or death of our the proposed means; and that probably a surplus of resources might be left that would go far towards the remainder of the work."

" Washington, April 23, 1845. " MESSRS. GALES & SEATON: It is my intention to pass over, examine, and partialthe proposed route for the railroad from lake Michigan to the Pacific.

"Several young gentlemen of high respectability and education will accompany me, and it will please me to have our number increased.

cial to health, and useful in the knowledge that was reasonable in its charges, will find to be gained of that vast country; and should a rush of passengers to her decks. Now, the project for the railroad succeed, those then, so long as such is the feeling, and such who now accompany me can be usefully the practice of the community, we may cry and advantageously employed in the great out against the carelessness of the mana-

gentlemen of the south to join us; and I shall be happy to communicate with any so Truly yours, A. WHITNEY. "41 William St., New York." disposed.

#### STEAMBOAT DISASTERS.

"Without pretending as yet to offer any from the Traveller. It is high time that pensation, and to run them in the least posmeasures were taken to avoid the numerous long, just so long, we shall have steamboat

clusion; and anything but forbids, therefore, Hudson has aroused public attention to the the prosecution of a careful examination of necessity of legislative interference in regusure, the lives of our citizens? In this form "Certainly, then, since the proposed of the question, the answer is unanimous-

"It is proposed among other things, that slaughter. We aver that such a requisition "Nor is it to be overlooked that at least would be perfectly right and just. These an object highly worthy of being realized, same principle, and for the same sufficient

"But, after all, we have little hope of any effectual reform in the management of our passenger boats, until the press and the public themselves are reformed on this subject. What can our legislators do effectually, or what will they attempt to do, so long as the rage for rapid travelling and cheap travelly survey seven or eight hundred miles of ling continues? What is human life, compared with the saving of a picayune, or of an hour's time? A boat that will make a "I shall leave New York about the 20th quick passage, though it be to the straining lay for Green Bay, follow the lake down of every joint in her, and to the endangerchronicled and puffed as "the fastest boat on the route;" and will be crowded by hundreds of persons travelling for pleasure, as well as for business.

"A boat which will start as an opposition "The excursion will be pleasant, benefi-line, and underbid the old line, even though gers of our steamboats, when, in their races "It will please me to have some young they are so unlucky as to blow up or run on a rock, we may even judge them, in certain flagrant cases, worthy of the gallows—as perhaps some of them really are—and still the evil will not be remedied; and if traced home it will be found lying at our own door. If the public will patronize and encourage We fully concur in the following remarks men to run boats without a reasonable comaccidents which occur on board American disasters; and every few weeks the community will be clothed in sadness, and the "The recent appalling disaster on the mourners will go about our streets."

We will pl lish I 12th / On that th its hei ing.

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" PROGRESS OF RAILWAYS.

We are indebted to Adams & Co., who to almost every remarkable invention that fears of the timid, and the misconceptions will please accept our thanks, for the Eng. has been introduced during the last fifty of the uninformed, we venture to think, that lish Railway, and Mining Journals, of the ling. The proposed locomotive steam-carriage was most violently opposed by the devent lovers of stage-coach travelling. The correct their misconceptions. Correct defi-On referring to these Journals we find olden times and the olden ways were so nition is the foundation of all sound informathat the railway fever has not yet reached much admired that any innovation on the tion. The terms constantly employed on its height, but seems to be steadily advanc. olden practices were dreaded with a terror, this topic are "locomotive power" a little less than that felt at an approaching mospheric principle or power." Locomotive The following extract from the Mining earthquake. That the whole host of interpower is the mechanical force identifying it-Journal of April 12th shows that railway and improved mode of travelling was no ric power is mechanical force acting on the shares are esteemed as one of the best, if not more than might be expected, because the carriages through different media—a force the very best investments of capital-an doctrine of vested rights, as maintained and renewable at intervals on the line-so that opinion in which we fully concur, when ju- practically carried out in this country, had the atmospheric power is often classed with had no such rights to be jeopardised or dam ways, such as Blackwall, the rope by which "The transactions in railway shares have aged should be opposed, must be a matter of the carriages are moved is put in motion by this week been more buoyant than ever: surprise to every reflecting mind. For not a power that is entirely fixed and distinct speculation appears again to be on the in- a few, both in Bristol and Birmingham, were from the carriages themselves. and unabated as ever. Scotch and Irish miles an hour, said, with much complacency so new-and, consequently, the plans conrailways appear to hold a prominent position -" Let others venture their necks who structed on it by no means so jejune and at the present moment; and, while the lat-ter are especially in great request, it may be to travel at the rate of ten miles an hour, have contended for the honor of being the mentioned as an instance of the high favor including all stoppages, and think it is speed birthplace of Homer, it is no wonder that of the former, that for the allotment of 22, enough for any reasonable man." And so many persons who have had thinkings and 000 shares in the Great North of Scotland, it was, according to the means employed—imaginings on the subject should contend there were applications for no less than 200,- means which involved no small amount of for the honor of being the inventor of the of £300,000 were to be allocated, 109,652 ral mode for the transmission of men and right source; the first authentic data, howshares, representing a sum of £2,193,040, chattels, the very persons who were so timid ever, which we have immediately connected were sought for. This, indeed, looks as if and so dreading consequences, are now with the subject, is the publication of a the mania for speculation had not in the among its warmest advocates and substanleast subsided; but it is not to this class of tial patrons. Yet this must not be regarded don, in which he proposed the idea of em-

ever been a mighty barrier to all social and the stationary, as the impulse, or cause of moral improvements. But that parties who motion, is only at intervals, as in some rail-

crease, and the desire of investing, so far to be found, who, on hearing of the respective railways proposing to accomplish twenty satisfactorily show that the principle is not 000, and in the Inverness and Elgin Rail-suffering and cruelty to animals. But now atmospheric mode of propulsion. There are way, where only 15,000 of the total amount that locomotive power has become a gene-some difficulties in tracing this Nile to its stock that the spirit is confined; even in no- as an ultimatum, but merely a step in the ploying the power of the atmosphere created vel propositions to be applied to railways, the anxiety to invest is singularly perceptible; we believe that, for the 12,000 shares treated, on their first introduction to public obtained to propel carriages travelling on a into which Bilbrow's Atmospheric Railway notice, by the populace at large, it is no road. Mr. Pinkus, however, asserts that capital is divisible, above 36,000 have been more than experience has taught us, to ex- Mr. Medhurst only proposed the impracticaalready applied for. This sudden eagerness pect that every bold invention, developing ble part of Papin's plan of forcing air under to speculate is, doubtless, attributable in a some new power, should meet with a similar the compression of many atmospheres, as great measure, to the eminent success attend- treatment; and, upon this principle, a host several others before him had done, adding, ing enterprise in similar projects. Railways of prejudices are arrayed against atmosphe- at a subsequent date, the idea of moving a appear daily progressing, not only in extension, but receipts, and affording thus a stea- existed against former inventions, and sub- forcing in air behind it, from distances of 20 dily increasing return for capital; such in-sequently giving way to approbation and miles apart, and, by means of such piston vestment is naturally considered a safe as admiration of the highest order, induce the well as eligible medium for permanent en- writer of this paper to think, that those pre- Medhurst's first plan was to convey letters judices arose from a want of information, and goods by means of rarefaction and comand a consequent misapprehension of the pression of air in a channel six feet high and ON ATMOSPHERIC RAILWAYS .- BY DR. J. G. whole invention. This is certainly the case five feet wide, contained in a paved road or In no subject is an active, energetic, and mospheric railways; they talk of accidents observed, took out no patent, performed no commercial people more deeply interested occurring by this mode of travelling which experiments, and distributed his pamphlets than in the means for safe and expeditious must, of necessity, be more fatal than acci-intercommunication; and, as we have long dents by the locomotive power. No mode versy has always existed as to the legitimaintained a high pre-eminence among the of travelling can pledge an entire exemption macy and extent of his claims. In 1824, civilized nations of the earth for our zeal, from accidents. A small piece of orange he contested his claims to invention, in a enterprise and commerce, we can only expect to secure these honorable distinctions sion the death of the man who accidentally by affording every possible encouragement puts his foot upon it. But this is very differto those inventions and discoveries which ent from a company of men looking pale.

paper war with Mr. Valance; and in 1840, Mr. Pinkus contested them. In 1817, Mr. Lewis proposed a plan, which was a modification of that of Medhurst's. In 1824, Mr. have a tendency to bring the arts and sci- with fear, dreading that a shower of pump- Valance took out a patent for his method of ences to the highest degree of culture and kins from the moon will dash them to pieces, an underground tunnel, also availing himpractical utility. The truth of this state-ment has been admitted; and yet a strange, timony that there are pumpkin gardens in but most decided opposition has been raised the moon. With the utmost respect for the system at Brighton, but does not appear to

have been successful, so that his patent pro- former also for the mains and valves. Mr. tem precludes all the terrible calamities of duced him no return, while Mr. Medhurst Clegg is claimed by Mr. Pinkus as having bursting boilers and burning trains, with claimed priority of the invention. There is, been at that time cenfidentially employed and which the public has become painfully fami. however, strong reason for deciding that Mr. consulted by him, and as having witnessed liar. Running off the line is also avoided; Valance first proposed employing the power the progress of the experiments; to these as-since, in the atmospheric system the impel. of the atmosphere against a vacuum for rail-sertions of Mr. Pinkus we have not seen a ling power is at the centre of gravity, and way purposes, as Mr. Medhurst did a plenum. satisfactory answer; certain it is, that on must, from its action, keep the train on the large pamphlet of 1810, and he then proposed to ken out by Messrs. Clegg and Samuda, from such disastrous results have arisen, cannot use a tube comparatively much smaller, to which practical results have been obtained. possibly take place on the atmospheric printendes a piston in it, and to transmit its action to the outside, through a longitudinal pheric plan, up to this period, was in herme-physical discussion of the question, how opening: he proposed also to have stationary tically sealing the valve with a composition much the very conciousness of safety proengines twenty miles apart, for forcing in each time the train passed. In 1838, expemotes our comfort—it may suffice to say, air. Of this plan he published a drawing, riments had been made on this plan at Chail-that the atmospheric system offers a full en. showing a long box, and a pipe suspended lot, through the exertions of Mr. James Bon. joymemt of the pure atmosphere of heaven over a channel of water, in order to make fit. Next, an extensive experiment was per- as you quietly glide on by an invisible pow. a water joint or valve. According to the formed on Wormwood Scrubbs, on the West er, and entire freedom from the clanking of assertions of some of his friends, he made ex. London railway, Mr. Pinkus's apparatus hav- cumberous machinery, flying sparks, hot periments with this and failed, from the impossibility, explicitly says one, of making the ground for want of funds. The portion Another advantage is, increased speed—the allow a useful degree of rarefaction to be half the distance, and 1 in 115 for the re- highest velocity of travelling on the fastest produced; Mr. Pinkus, however, says he mainder. On the 11th of June, 1840, this line, by steam is thirty miles an hour; and of that mode of railway transit appears to be far sanctioned by the approval of eminent dered of paramount importance, did it exist fairly due to Mr. Medhurst; the important engineers, as to justify further proceedings. alone; but when speed can be secured at step of creating a vacuum before the piston We should observe, that on the 3d August, less expense, and with increased safety and improvement of attaching the piston to an external carriage is disputed by Mr. Medhurst precisely similar to Clegg and Sumada's; The plans of atmospheric railways, now certainly the first publication, while Mr. Pin-proposes a gaso-pneumatic power. About attention. The first we notice is that of kus quotes no evidence as to his own claims. 1841, Mr. Bonfit set up at Havre, in the fac-Clegg and Samuda; and we cannot do betbrought out his first patent; and in this he turing Clegg and Samuda's valve. At the M. Arago. We shall now say a few words proposed, as a valve, one in the form of a close of 1843, Clegg and Sumada's plan was on the manner in which they have contrived cations, such as are now enrolled, and that line. And in the subsequent history of at-he had exhibited them to his friends, and in 1833 commenced his patent. In 1834, he we imagine, not least—the extraordinary but ible connection, of which we have just spoconstructed a large working model, which simple invention of Mr. James Pilbrow, ken, could not be established conveniently, was publicly exhibited in Wigmore-street; which obtained a patent on the 18th Novem- except by means of a metal rod passing from according to the Samuda advocates, the ber, 1844; this invention does away with the piston to the carriage. Now, as it is neunder Mr. Pinkus's principle, and contracts ventions cannot claim. were made for works, to demonstrate the principle. In 1836, Mr. Pinkus took out another gage the attention of the public are that of upper slit that the metal arm travels, by patent for this country, with improvements, Messrs. Clegg and Samuda, and that of Mr. means of which the movement of the piston and also for foreign countries; in this the valve Pilbrow, we purpose in a subsequent part of is communicated to the leading carriage of was formed of iron plates, secured to felt, to this paper, to give a minute description of the train, and thence to all the others. This lay against pieces of wood, which he proposes each of these plans, and a comparative esti- rod or arm, has been very justly called to fix to the inner sides of the trough, as pre-senting a smoother surface than cast iron; intention to the general advantages of the But, it may be asked, if there is an opening he also described a spring copper valve, fastened at its foot to the pipe, and meeting at the top, in the shape of an inverted V. The of the most obvious advantages. In the shape of a valve, by system was then called the pneumatic sys- original outlay there is not a necessity for which it is hermetically closed; the vacuum tem, and excited a good deal of attention, that extensive levelling as is now required; can be thus successively produced in that and much controversy. At this period works engines of very great power will not be part of the tube to the left and right of the were designed to be applied on the West needed; the wear and tear of materials will piston, as in the closed tube, of which we London Railway, at Wormwood Scrubbs; be diminished; and, by consequence, the have spoken in the commencement. By a the works nearly completed a line half a mile rates of charges for travelling will be lessen-movement to which we shall presently refer in length, formed on the margin of the Ken-ed, and cheap travelling will be secured with the valve is partially opened near the piston, sington Canal, which was united with that line of railway; Messrs. Samuda and Hague were the contractors for the engines, the mount importance. The atmospheric system of the most delicate part of the appara-

continuous communication from the inside of the line selected was half a mile long, average rate of travelling by the atmospheric of the pipe to the carriage tight enough to with a rise of 1 in 120 for rather more than power being fifty miles an hour, while the was well informed that Mr. Medhurst never line was open for experiments, and these in a country where time is appreciated as made a single experiment. The suggestion were attained with sufficient success, and so property of great value, this must be consibelongs to Mr. Valance, while the further 1839, Mr. Pinkus obtained a third patent, in comfort, no doubt can exist, to which system and Mr. Pinkus; Mr. Medhurst's pamphlet is on the 24th March, 1841, a fourth, where he fairly before the public, claim our particular On the 1st of March, 1834, Mr. Pinkus tory of M. Nilbus, machinery for manufacter than give the description drawn up by cord, or rope, and which he calls a valvular laid down on the Dalkey line for the short to establish an immediate and unyielding cord. Mr. Pinkus states, that in 1830, he distance of one mile and a quarter; this is connection between the piston, on which the had again prepared fresh plans and specifi- a continuation of the Dublin and Kingstown atmosphere acts as a moving power, and the experiments were a complete failure; but in the continuous valve altogether, having nessary that this connection should be main-1836, an association was formed for working many other advantages which preceding in- tained during the entire course of the piston,

there must be a longitudinal opening in the As the two plans which now chiefly en-upper surface of the tube. It is along this

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surf as t hori should the valve allow the air to enter by any fissure, we cannot produce a sufficient vacuum, but by having recourse to a very the tube, is formed of a strip of leather of foot long, and not leaving a space between other edge remains unattached and moveable; and, when the valve is closed, it merely rests on the second lip of the opening, which has been previously covered in its entire length, by a composition of wax or tallow. leather fastened to the tube bends, and thus acts as a true hinge. The valve is never raised to a perpendicular position; its movement never exceeds an angle of 45 deg. The mere falling of the valve by its own weight does not give it sufficient adherence to the edge of the opening, so as to prevent it scarcely resumes its place before it is heavily pressed by a wheel fixed at the back of the leading carriage, to which also is attached a cylinder filled with burning charcoal, for the purpose of melting the composition of tallow and wax, by which the valve is held down. This is a full description of the Clegg and Samuda atmospheric railway. Did time allow, we might also notice a simia mere improvement in some mechanical surfaced wheels (a combination of the two, as the model is now before you), working horse power during the whole time of work-horizontally on an axle, or shaft, the upper ing every ten miles; the Samuda plan re-

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tus. If the valve accurately closes the open-portion of which passes through an aperture quires an exhausting engine at short interare then made to act upon the train, by dy proved groundless." means of a rod attached to it, similar to that attached to the piston within; and thus, as the piston moves along inside the tube, the first carriage of the train moves along also over it outside the tube, through come now to notice the invention by Mr. and rods. In attempting to give a com-Pilbrow, C.E., for which a patent has been parative estimate of these two plans, it is taken out. Now, this invention does not right to state that Clegg and Samuda's plan appear to be, like many of its predecessors, has most of the general advantages which atmospheric railways have over the present detail, but seems rather to be a new creation locomotive principle. The great distinction, street. We have unintentionally omitted to a new system altogether. It might be however, between the system of Messrs. asked, where Clegg and Samuda's patent differs from Pinkus's, &c., or what have that in the former, the connection between Clegg and Samuda done? but no one will the carriage train and the propulsion piston find it necessary to investigate far to dis. is direct; in the latter it is indirect, a third cover the difference here-no one will ask medium being employed. Another importhat question as to Pilbrow's. By this plan, tant distinction is that the Samuda system the necessity for the continuous valve run- has the propulsion tube above ground, and ning along the upper part of the tube is en has insuperable difficulties in crossing roads, tirely avoided; the connection between the and in intersecting other lines; the Pilbrow Propulsive principle within and the carriages invention placing the tube below the surface, without being obtained in a manner entirely gets rid of all the objections in regard to distinct. The propulsion tube, instead of crossing and diverging lines from the main being broken or stopped at intervals of a trunk. The continuous valve of the Samufew miles, extends unbroken for the whole da plan must necessarily occasion much distance. At intervals on the top of the leakage, while the Pilbrow plan, dispensing of the canal, by John B. Jervis, Esq., civil propulsion tube—say, every thirty feet— with the valve altogether, no leakage from there are placed boxes and supports. With- that cause can possibly arise. The leakage in these boxes are cogged wheels or smooth- of Samuda's plan is equal to five horse power

ing a perfect vacuum is produced and main-tained, by which we obtain a permanent and above these boxes, the same axles are made powerful moving force. On the contrary, to bear rollers or wheels similar to those inside the box. The passages through which the shafts pass are rendered air-tight by the therefore, may be subject to frequent intershoulders or flat fillet turned upon the shafts. ruptions for repairs. As M. Arago inquires powerful air pump—and, moreover, this im[The lecturer referred to diagrams.] At—"Can we hope for future success from a
perfect vacuum can only be supported by the tached to the propulsion piston is a long rod, system into which enters, as principal agents, continual action of the pump. The longi- or bar, nearly fitting the small square chan- a strip of leather of immense length, a comtudinal valve, which closes the opening of nel, or tube, cast upon the propulsion tube, position of wax and tallow, and a hot iron to and, running along with the piston, is con- dissolve the wax?" Now, the Pilbrow plan indefinite length, strengthened above and ducted by this smaller tube between the is remarkable for its simplicity and the fewbelow by a series of iron plates of about a lower wheels. Either side of this bar is ness of agents employed. It is much to be covered with cogs, or is smooth, or a com- lamented that the Pilbrow plan has been atthem of more than three-eighths of an inch. bination of the two, as the case may be the tacked, and difficulties ascribed to it, for Weight is thus given to the valve without lecturer referred to diagrams and model], which no grounds whatever exist—difficuldestroying its elasticity. The leather is corresponding with the surface of the wheels ties which have no existence whatever, but closely and hermetically fastened by one of within the boxes above described. It should in the imagination of the objector. Even its edges to one side of the opening. The be mentioned, also, that these wheels, or these imagined difficulties must be frankly rollers, are made to project in a slight degree met, such as "the fine ground metallic surwithin the smaller tube. [The lecturer faces of the wheels soon being injured;" pointed out the distinction between the ad- " the friction and wear of the spindles, by hesion and cog plan; the latter not being dust;" but the most formidable objection indispensable, but, on the contrary, arrange- was stated against the use of cogs—that When the valve opens, that edge of the ments which many prefer.] As to the mo- great speed would certainly break or strip del in particular, which meets all the objections raised against other forms or arrange- his pamphlet, and in this room (January 8) ments of this invention, the manner of that you may dispense with the cogs, and working the apparatus is simply this:—the make use of adhesion, or a combination of air being exhausted from the propulsion tube, the two, at high velocities, though it is right the piston, with its rod attached, is moved here to state, that an experiment has been along inside it by the pressure of external made with the cogs at the rate of fifty-five the entrance of air into the tube; therefore atmosphere; and, as it moves, the rod works miles per hour, and they did not break or on the wheels on the inside, turns them strip. It, however, would be perfectly useround, and, as they turn the wheels outside, less, to spend time in refuting objections the boxes turn also. These external wheels which have been either anticipated or alrea-

The Atmospheric Railway appears to be gaining ground. The above article by Dr. Hewlett, which we copy from the Mining Journal, in relation to the various plans of lar plan by M. Hallette, of Arras. We the medium of this double set of wheels Atmospheric Railways, will be read by many with interest.

> THE ANGLO AMERICAN, No. 3, Vol. V, A. D. Patterson editor, E. L. Garvin & Co., publishers, Astor buildings, No. 4 Barclay notice the commencement of the 5th volume of this excellent journal. There are very few of the weekly journals which come under our observation that can compare with it, as a reading paper, either for its variety, or its judicious selections. It is published once a week, 24 large pages, at \$3 a year.

MERCHANTS' MAGAZINE, No. 5, Vol. XII -for May-Freeman Hunt, 142 Fulton st. We have before us the May number of this valuable magazine. Among numerous other articles, we find one upon the enlargement engineer, which we shall give entire in our next number.

Dr. Griscom pronounces the cars on the

CONSUL AT HAVRE.

American Consul at Havre, from the Baltimore American, and give it a place in the we take the following passage:-Journal for the purpose of doing our part in showing the American people the estimation in which the system of changing our public ver, and having fulfilled the duties of Conevils, should a reaction take place—should a sul in a manner so satisfactory to us, and fall occur, but half as suddenly as the recent men in subordinate stations with every political change, is, and should be held by all honorable minds :-

tice that Mr. Pickett, of New Orleans, had ther you be destined in the course of events raw material from India-aye, and even the been nominated as the successor of R. G. to remain in place, or to spend the remain. United States of America-will effect that Beasley, Esq., U. S. Consul at Havre, on der of your days in retirement, you may rest fall, which, at present, is with so much short

tune by his office, remarks ously discharged like duties in England for tor: ten years. During the whole of that long career, Mr. Beasley has succeeded in conciliating at once the esteem of his own countrymen, and of those among whom he has lived. A man of intelligence, and of pecucan Consul at Havre, will long live in a city, where he has had the talent to introduce notable improvements.

fleur. First after the general peace, Mr. Beasley gave the impulse to public improvements, by causing to be built on the slope of Ingouville some of those charming resion trade from the Mining Journal, of 12th dences which now cover that beautiful na- April, which says: His example found nutural amphitheatre. merous imitators; but now, in looking at that modern village, suspended on the hill preliminary meeting at Wolverhampton, side, and overlooking our port, we must not about a fortnight since, where it was deterfail to assign the part that belongs to him mined to make an advance of £2 per ton,

Beasley will lose in him a consul-firm, en- ed high prices, which were then decided on, lightened, and full of energy; but Havre the greatest interest was evinced as to the will long preserve, we hope, a citizen who result of the quarterly meeting at Birmingenjoys among all classes of our population a ham, on Thursday last, more especially as it on application to the Subscriber, Inventor, and Pawell merited consideration. well merited consideration.

papers for displacing Mr. Beasley is curious which has taken place. But, as we have enough. 'You have made a fortune,' they more than once maintained, the price of iron

upon the soil of the Union !"

We cut the following just tribute, to the on hearing of Mr. Pickett's nomination to prosperity of the iron trade than any in prothe U. S. Senate, addressed a highly com-spective) - and apart from the indirect detriplimentary letter to Mr. Beasley, from which mental influence, the high price must have

we think we may say generally to those in rise—the injury caused, primarily to the terested in the commerce of the place, we holder, and secondarily to the working pop. hope and trust that the Senate, by declining ulation, will be incalculable; and, sooner or to ratify the appointment, will allow you to later, come that reaction must. If, from no The Journal de l'Arrondisement du Havre, retain the office which you have so long other cause, the introduction of foreign me. after copying from an American paper a no-filled to the honor of your country. Whe-tal, whether castings from Belgium, or the the ground that he, Mr. B., had made a for. assured of the friendship and esteem of all sightedness delayed. Meanwhile, though who have had an opportunity of knowing the prices have been quoted so high, the mar. "Mr. Beasley has fulfilled the duties of you as we do, and in speaking of you, we ket continues firm, with a good business do. Consul twenty-eight years—having previ- will repeat the words of the American Nes- ing the entire week. There was a report

> 'He has served his country long and faith- had obtained £6 6s. per ton.' fully."

> > THE IRON TRADE.

liar aptitude for all that promotes the arts of steadily advancing. This state of things, if at the rate of 1000 tons per month, beginindustry, the name of Mr. Beasley, Ameri- it should continue for any considerable length ning in October. The purchase is made by of time, will materially affect the progress a Glasgow house.—Liverpool Times. of railways; yet, eventually, and at no dis-"Steam navigation, now one of the most important elements of the prosperity of Hampurant elements of the prosperity of the pro competition, furnish an abundance of iron at reduced prices.

announced the result of the iron masters' who was the first to lead off in this progress. making bar iron about £12, and hoops £12 \* \* \* "The countrymen of Mr. 10s. In consequence of these unprecedentwas generally believed that the masters "The motive assigned by the American would be unable to maintain the great rise effects it must have upon our ship building. ple and economical construction, and very effective from and Brass Castings of all descriptions. A number of the inhabitants of Havre en- (a department promising a few months ago

gaged in the trade with the United States, to afford a more permanent medium for th upon the stability of the trade itself-apart, "You having resided so many years in Ha- we say, from all these present and positive last evening on 'Change, that Scotch pig iron

RAILWAY IRON.-A contract was entered into in this town, on Saturday, for 21,000 In England the price of iron seems to be tons of rails, at £12 a ton; to be delivered

> RAILROAD IRON AND FIXTURES. THE Subscribers are ready to execute orders for the above, or to contract therefor, at a fixed price, deli-

ICOLL'S PATENT SAFETY SWITCH at a switch, left wrong by accident or design. It acts independently of the main track rails, being

"We have, in a former number, already laid down, or removed, without cutting or displacing

It is never touched by passing trains, except when in use, preventing their running off the track. It is simple in its construction and operation, requiring only two Castings and two Rails; the latter, even if

much worn or used, not objectionable.

Working Models of the Safety Switch may be seen at Messrs. Davenport and Bridges, Cambridgeport, Mass., and at the office of the Railroad Journal, ew York.

Plans, Specifications, and all information obtained

GEORGE VAIL & CO., SPEEDWELL IRON Works, Morristown, Morris Co., N. J.—Manufacturers of Railroad Machinery; Wrought Iron more than once maintained, the price of iron say to him, 'turn out for some one else.' Strange logic! According to this, one might ask, what estimate would be placed by the American Government upon a functionary who, by his prodigalities and carelessness, should succeed in being sold out twice a year by the sheriff—and whether, in the U-States, a certificate of indigence is a talisman and pledge of success for those who aspire to public office? In this case it would be precisely the occasion to sing, with Beranger—

'Les gueux! les gueux

Sont des gens heureux!'

upon the soil of the Union!"

more than once maintained, the price of iron so far from receding, has not yet reached its limit; and the issue of the meeting on Thursday fully confirmed our previous confident opinion. The prices were then fixed at—bar iron, £12; hoops, £12 10s.; and Shropshire pig iron, £6 10s. Still, though we all along foresaw and forwarned this incoverage in this case it would be precisely the occasion to sing, with Beranger—

'Les gueux! les gueux

Sont des gens heureux!'

upon the soil of the Union!"

more than once maintained, the price of iron so far from receding, has not yet reached its limit; and the issue of the meeting on Thursday fully confirmed our previous confident opinion. The prices were then fixed at—bar iron, £12; hoops, £12 10s.; and Shropshire pig iron, £6 10s. Still, though we all along foresaw and forwarned this increase in the price of indigence is a talismost to order, and also punctually, as a large quantity of the straight bar is kept constantly on hand.—Crank Axles, made from the best refined iron, Straight Axles, for Outside Connection Engines; Wro't. Iron work for Steamboats, and Shafting of any size; Grist Mill, Saw Mill and chiners, to be driven by the Locomotive; Stationary Steam Engines; Wro't. Iron work for Steamboats, and Shafting of any size; Grist Mill, Saw Mills of simple and economical construction, and very effective fluctions and Proceeding to the manufacturers of Reverence or or olded, from 14

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NEW JERSEY RAILROAD AND TRANSPORTATION COMPANY.

Length of Road, 33 96-100 miles.

John S. Darcy, Esq., President.

J. P. Jackson, Esq., Secretary.

TRANSPORTATION COMPANY.

Capital, \$2,000,000.

ROBERT SCHUYLER, Esq., Vice President.

J. WORTHINGTON, Esq., Treasurer.

P. M.	A. M.	P. M.
2, 3, 43-4, 6, 71-2		4 3-4
3, 4 3-4, 6		
3, 43-4		
834	11 1-2	81-2
4 3-4, 9 1-4		
		9 3-4
	2, 3, 434, 6, 71-2 2, 3, 434, 6 3, 434, 6 3, 434 834 434, 914 12 31-2, 5	2, 3, 43-4, 6, 71-9 9 2, 3, 43-4, 6 3, 43-4, 6 3, 43-4

9 A. M. and 3 P. M. to meet the Morris and Essex trains, and 9 A. M. and 43-4 P. M. to meet the Somerville train, and for Philadelphia.

#### TABLE OF DISTANCES AND FARES.

	New	York.	Nev	vark.	Elizabe	thtown.	Rah	way.	N. Bru	nswick
	Miles.	Cents.	Miles.	Cents.	Miles.	Cents.	Miles.	Cents.	Miles.	Cents.
New York			9 1-4	25	14 1-2	31 1-4	19 3-4	31 1-4	31 1-2	50
Newark	9 1-4	25			5 1-2	12 1-2	10 1-2	25	22 1-2	50
Elizabethtown	14 1-2	31 1-4	5 1-2	12 1-2			5	12 1-2	16 3-4	50
Rahway	19 3-4	31 1-4	10 1-2	25	5	12 1-2			11 3-4	37 1-2
New Brunswick	31 1-2	50	22 1-2	50	16 3-4	50	11 3-4	37 1-2		

#### KITE'S PATENT SAFETY BEAM.

ESSRS. EDITORS. M As your Journal is devoted to the benefit of the public in general I feel desirous to communicate to you for publication the following circumstance of no inconsiderable importance, which oc-curred some few days since on the Philadel-phia, Wilmington and Baltimore railroad.

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On the passage of the evening train of cars from Philadelphia to this city, an axle of our large 8 wheeled passenger car was broen, but from the particular plan of the con-struction, the accident was entirely unknown to any of the passen-gers, or, in fact, to the conductor himself, until the train, (as was supposed from some supposed from some circumstances attend-ing the case,) had pass-ed several miles in advance of the place where the accident oc-curred, whereas had the car been constructed on the common plan the same kind of acci-

dent would unavoidably have much injured it, perhaps thrown the whole train off the track, and seriously injured, if not killed many of the passengers. Wilmington, Del., Sept. 28, 1840.

Wilmington, Del., Sept. 28, 1840.

The undersigned takes pleasure in attesting of the value of Mr. Joseph S. Kite's invention of the Safety Beam Axle and Hub for railroad cars. They have for some time been applied to passenger ears on this road, and experience has tested that they fully accomplish the object intended. Several instances of the fracture of axles have occurred, and in such the cars have uniformly run the whole distance with entire safety. Had not this invention been used, serious accidents must have occurred.

In short, we consider Mr. Kite's invention as completely successful in securing the safety of property and lives in railroad travelling, and should be used on all railroads in the country.

JOHN FRAZER, Agent,

GEORGE CRAIG, Superintendant,

GEORGE CRAIG, Superintendant,

W. L. ASHMEAD, Agent.

JA model of the above improvement is to be seen at the New Jersey railroad and transportation office, No. 1 Hanover st., N. York.

R. CASEY, CIVIL ENGINEE .NOgR2

• Chambers street, New York, will make s,1veys, estimates of cost and reports for railways, canals, roads, docks, wharves, dams and bridges of
every description, with plans and specifications. He
will also act as agent for the sale or purchase of machinery, and of patent rights for improvements relat-ing to public works.

SAMUEL NOTT, CIVIL ENGINEER, SURveyor and General Agent, Bangor, Me. Railroads, Common Roads, Canal, Factory and Mill Sites Towns, Farms, Wild Land, etc., surveyed. Plans and Estimates for Buildings, Bridges, etc., prepared, and all appertaining business executed.

Boston, Col. J. M. Fessenden,

Wm. Parker, Esq., Engineer and Superintendent
Boston and Worcester railroad.

PATENT HAMMERED RAILROAD, SHIP and Boat Spikes. The Albany Iron and Nail Works have always on hand, of their own manufacture, a large assortment of Railroad, Ship and Boat Spikes, from 2 to 12 inches in length, and of any form Spikes, from 2 to 12 inches in length, and of any form of head. From the excellence of the material always used in their manufacture, and their very general use for railroads and other purposes in this country, the manufacturers have no hesitation in warranting them fully equal to the best spikes in market, both as to quality and appearance. All orders addressed to the subscriber at the works, will be promptly executed. JOHN F. WINSLOW, Agent.

Albany Iron and Nail Works, Troy, N. Y.
The above spikes may be had at factory prices, of Erastus Corning & Co., Albany; Hart & Merritt, New York; J. H. Whitney, do.; E. J. Etting, Philadelphia; Wm. E. Coffin & Co., Boston.

MACHINE WORKS OF ROGERS, KETCH-Mum & Grosvenor, Patterson, N. J. The undersigned receive orders for the following articles, manufactured by them of the most superior description in every particular. Their works beingexten-sive and the number of hands employed beinglarge, they are enabled to execute both large and small orders with promptness and despatch.
Railroad Work.

Locomotive steam engines and tenders; Driving and other locomotive wheels, axles, springs & flange tires; car wheels of cast iron, from a variety of patterns, and chills; car wheels of cast iron with wrought tires; axles of best American refined iron; springs; boxes and bolts for cars.

Cotton, Wool and Flax Machinery

of all descriptions and of the most improved patterns, style and workmanship.

Mill gearing and Millwright work generally; hydraulic and other presses; press screws; callenders; lathes and tools of all kinds; iron and brass

castings of all descriptions.

ROGERS, KETCHUM & GROSVENOR,

a46 Paterson, N. J., or 60 Wall street, N. York.

PATENT RAILROAD, SHIP AND BOAT ATENT RAILROAD, SHIP AND BOAT Spikes. The Troy Iron and Nail Factory keeps constantly for sale a very extensive assortment of Wrought Spikes and Nails, from 3 to 10 inches, manufactured by the subscriber's Patent Machinery, which after five years' successful operation, and now almost universal use in the United States (as well

as England, where the subscriber obtained a patent) are found superior to any ever offered in market.

Railroad companies may be supplied with Spikes having countersink heads suitable to holes in iron rails, to any amount and on short notice. Almost all the railroads now in progress in the United States are fastened with Spikes made at the above named factory—for which purpose they are found invaluable, as their adhesion is more than double any com-

mon spikes made by the hammer.
All orders directed to the Agent, Troy, N. York, will be punctually attended to.

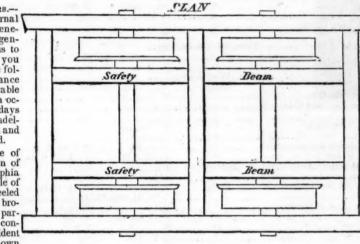
HENRY BURDEN, Agent.

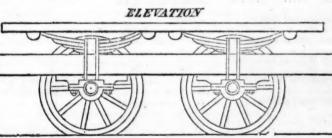
HENRY BURDEN, Agent.

Spikes are kept for sale, at Factory Prices, by I.

& J. Townsend, Albany, and the principal Iron merchants in Albany and Troy; J. I. Brower, 222 Water
St., New York; A. M. Jones, Philadelphia; T. Janviers, Baltimore; Degrand & Smith, Boston.

\*\*\* Railroad Companies would do well to forward their orders as early as practicable, as the subscriber is desirous of extending the manufcturing so as to keep pace with the daily increasing demand. ja45





Section

## TRAVELLERS' RAILROAD DIRECTORY.

TRAINS LEAVE	POR	BY RAILROAD	DAYS.	A. M.	P. M.	MILES,	FAI
oston	Portland	Eastern,	Daily,	71,	24,	106	\$3 0
	Portsmouth	и		71,	21, 41,	54 35	2 0
"	Newburyport			71,	21, 41,	14	1 2
	Salem	Poston and Maine		7‡, 9, 11‡,	31, 34, 41, 0,	109	3 0
ortland	PortlandBoston	Boston and Maine,	"	74		109	3 0
oston	Lowell			7, 11,		26	7
owell	Boston	4 4	***	71, 11,	2. 41. 51	26	7
oston	Concord.	Concord,	"		31,	76	2 0
oncord	Boston.	46	11		31,	76	20
oston	Nashua			7, 11,	5,	41	
ashua	Boston		#	64,		41	
oston	Worcester		66	7, 9,	21,	44	1 2
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ovidence	Boston			8		41	
w Bedford	Boston.	66		74			
ston	Dedham.			81,	3. 61		
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w York	Greenport	Long Island,	"	71		95	2 2
ooklyn	Hicksville & intermediate places	"	"	91,		26	5
	Greenport " "	"	Tues., Thur. & Sat.,	91,		95	2 2
"	Hicksville, (Saturd'y to Suffolk)		Daily,			26	2 5
enport	Brooklyn, (Boston train)				1,	95	2 2
-1	" (accommodation do.).		Mon., Wed. & Fri.,	*		95 26	2 2
cksville		*****	Daily,	7,		20	5
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